SEPTEMBER, 1991
Vol. 37 — No. 5
$2.50

Precision SHOOTING

Dealing exclusively with the topic of extreme rifle accuracy

LEE EUBER

East Middlebury, Vermont

1991 Inductee
Benchrest Hall of Fame

PRECISION
SHOOTING

PUBLISHED MONTHLY BY PRECISION SHOOTING, INC.

Editorial Offices
37 Burnham Street East Hartford, Conn. 06108
Tel. 203-643-1157 (work)

Business Offices
5735 Sherwood Forest Drive Akron, Ohio 44319
Tel. 216-882-6877 (home)

Editor — David Brennan
Assistant Editor — John Gammuto
President — Myles Hollister
Vice-President — Dr. Richard Maretzo
Treasurer — Stella Buchtel
Corp. Clerk — Allie Euber

Precision Shooting (USPS 441840) is published monthly by Precision Shooting, Inc. Rates: U.S. $22.00 a year; Canada $24.00 a year. Two years: $38.00 U.S., $42.00 Canada. All other countries $28.00 Surface Mail, $46.00 Air Mail, each year.

POSTMASTER: Send all address changes to Precision Shooting, Inc., 5735 Sherwood Forest Drive, Akron, Ohio 44319.

Place of Publication — Elmira Quality Printers, Inc., Elmira, New York. Second-class postage paid at Elmira, New York.

NOTICE TO ADVERTISERS

PRECISION SHOOTING is printed by offset. Display copy is to be furnished by the advertiser. Advertising plates will be made from negatives, good black and white glossy prints or clear copy. Displays will be made to Advertiser's specifications. All normal composition will be set according to our own standards. Rate cards will be mailed to Advertisers on request. We reserve the right to reject advertising that we do not deem in the best interests of Precision Shooting, or which the Editor takes a dislike to.

LOADING NOTICE

The publisher, staff, and contributors to these pages respectfully advise readers that they make no representation of safety for the loads, procedures, or methods reported herein. We publish facts that were used on a given day, under a set of circumstances that are subject to dozens of variables, any one of which may cause an accident if changed or even duplicated. Please use caution at all times in the shooting sports.

BACK ISSUES

are available from: John Hollister, R.D. #2, Box 2395, Whitehall, New York 12887-9539. Inquiries by mail only, please. Make checks payable to Precision Shooting.

1-12 issues, $3.50 apiece
over 12 issues, $3.00 apiece

PS STAFF

YE OLDE EDITOR
David Brennan
37 Burnham Street
East Hartford, Conn. 06108
(work) 203-643-1157
FAX (203) 643-5872

ASSISTANT EDITOR
ADVERTISING MANAGER
John Gammuto
5685 Forest Hill Drive (#203)
Clarendon Hills, Ill. 60514
(work) 312-269-8701
FAX 312-269-8318

SUBSCRIPTION MATTERS
Stella Buchtel
5735 Sherwood Forest Drive
Akron, Ohio 44319
216-882-6877

COLUMNISTS:

Technical Editor:
M. H. Walker
P.O. Box 111
Etonah, North Carolina 28729

Benchrest - Feature
Lt. Col. Rick Hornbeck
R.D. 2, Box 220
Pine Bush, N.Y. 12566
914-744-3978

The Great Gunsmith
Seely Masker
54 Woodshire South
Getzville, N.Y. 14068
716-689-8894

Uncharted Waters
Merrill Martin
1250 67th Street
Emeryville, California 94608
(work) 415-652-2200

Rail Guns and Deringers
Jerry Masker
123 Radcliffe
Getzville, New York 14068

Big Bore Stuff
Buddy R. Salyer
504 Flemingsburg Road
Morehead, Kentucky 40351
606-784-8934

Levitation and Gravity
Bob Jourdan
385 Fenway Place
Bartlesville, Ok. 74006
918-333-5276

Deputy Editor for Southwest
Robert Pease
P.O. Box 787
New Braunfels, Texas 78130
512-625-1342

Official Gunsmith on the San Andreas Fault
Geo. M. Fullmer
2499 Mavis Street
Oakland, California 94601
415-533-4193

Pomp and Circumstance
Peter (Rabbit) Callan
7813 River Road
Waggaman, Louisiana 70094

.22 Rimfire and 16″ Naval Guns
Larry W. Brown
405 W. Washington (Suite 260)
San Diego, California 92103
619-299-4455

A Different Drummer
Todd A. Kindler
457 Sam Krabill SE
East Canton, Ohio 44730
216-862-3923

The Bwana of Zortman
Boyd Mace
5030 E. 12th Street
Casper, Wy. 82609
307-266-4730

The Ballistics at the O.K. Corral
Geza Nagy
436 So. 5th Avenue
Highland Park, N.J. 08904
201-572-1255

.308 is a Beautiful Number
John Bunch
5303 Jefferson, Rt. #2
Garland, Texas 75040
214-530-7136

Obscurata and Mythology
Rich Kayser
1820 5th St. South
Nampa, Idaho 83651
208-465-5409

The Swamp Fox
Kenny Jarrett
383 Brown Road
Jackson, So. Carolina 29831
803-471-3616

The Desert Rat
Richard Cundiff
905 Saratoga Way
Carson City, Nevada 89701
702-882-9115

Single Shot Jedi Knight
Warren Greatbatch
61 Main Street
Akron, New York 14001
716-542-3493
(716) 542-3496 FAX

Advertisers Index

Armor Metal Products	4
ASSRA	31
Bald Eagle Precision Machine	13, 33
Berger Bullets	42
Best of Precision Shooting II	28
Broughton Rifle Barrels	34
Brown, Colin	48
Bruno Shooters Supply	11, 39
Cook Bullets	18
Cornett, C.W.	33
Custom Products, Neil Jones	35
Davidson, A.L.	54
Dehaas-Miller	32
Douglas Barrels	54
Dunham's Bay Fish & Game Club	72
Fairchance Gun Club	51
Ferguson Tool & Instrument Co.	27
Gaillard Barrels	6
Gammuto, John	51
Grant Wild	43
Greenawalt, Jim	41
Hammonds Gun Shop	4
Hart Rifle Barrels	41
Hart, Robert W. & Son	6, 15
Haydon's Shooters' Supply	17
Hodgdon Powder Co.	19
Jarrett Rifles, Inc.	43
Jewell, Arnold	52
JGS Precision Tool Mfg.	5, 48
JLK Bullets	45
K & P Gun Co.	25
Kelbly, Inc.	44
Krieger Barrels, Inc.	25
Lang, Bud - XP-100 Book	55
Lilja, Daniel	37
Marquart Precision Co.	4
Masker, Seely	38
McCluskey Precision Rifles	27
McGee, Mike	27
MCRW Associates	29
Meacham Actions	29
Mitchell Bullets	27
NBRSA News	34
Neuman's Books	36
O.K. Weber	55
Op-Tec	23
Optical Services Co.	51
Pac-Nor Barreling	12
Pease, Bob	21, 26, 58
Pend Orielle Sport Shop	53
Precision Reloading, Inc.	47
Premier Reticles	32
Pro-Shot Products	16
RCBS - Electronic Scale	49
Redding Reloading Equipment	10
Rifle Basix	7
Rorschach Precision Products	54
Rubright, Brian	51
Salisbury Gun Club	31
Schneider Bullets	48
Schneider, Gary	10
Scott's Custom Guns	34
Simonson, Robert	39
Sinclair International	38
Skip's Machine	45
Spencer's Custom Guns	12
Texas Invitational	30
Tooley Custom Rifles	52
Trading Post	58
Varners	16
Welsh, Bud	52
Wentling, S.A. Co.	39
Whitetail Design & Eng. Ltd.	41

EDITORIAL

"Golden lads and boys all must,
as chimeny sweepers, come to dust."
—Shakespeare, "Cymbeline"

The September editorial will probably wander a bit . . . the editor is getting no younger (know anybody who is?) and (I'm told) that as one haltingly begins to enter one's dotage, one begins to wander just a bit. And if you think, at the end of the editorial, that, yes, indeed, he did wander all over . . . you should have seen a few shots that I fired at the Super Shoot this year. Now that was wandering!

During the January Unpleasantness that we know as Desert Storm (we have to admit that we like the British penchant for understatement . . . wars, uprisings, mutinies, general slaughters . . . all simply are termed an unplesantness), a Reuters News Service reporter, who was sticking to his post in Bagdad, one night when the place was really catching it generally . . . observed a Tomahawk cruise missile coming down the main thoroughfare, come up to an intersection, pause briefly, and then make a ninety degree turn down a side street. The action of the computer controlled missile, in making a right angle turn in front of the awed reporter, apparently upset the good fellow's view on the accepted order of things. Missiles (and a 68 grain Euber flat base bullet is a missile) are supposed to go in straight lines to their targets, not make right anlge turns. Such goings on would not awe any experienced target shooter that we know. Any or all of us fire (at least) a half dozen shots each year that . . . for some reason or other . . . make right angle turns on their way to their respective targets.

We recently had a very interesting phone conversation with Dr. Lou Palmisano. It is not all that easy to have a phone conversation with that worthy gentleman. He has a disappearing act that Abu Nidal (the international terrorist) could certainly learn a few things from. Like Mr. Nidal, when on occasion he chooses to surface, frequently the world sees some eye-catching developments. The two may be mildy controversial at times, but never dull. (Notice how we choose our words carefully, as not to offend. There's nothing like a lot of year's experience . . . at offending people . . . to teach you a bit). Lou had two items that are particularly interesting to the benchrest world.

First of all he has been putting together one heck of a hunter and varmint for score match for his Wapwallopen, Pa. range, scheduled for May 2nd and 3rd, 1992. He has elected to hang the title of The Wap-Wal Open on it. The industrious fellow has already lined up some $5,000 in prizes to this point, and certainly more is to follow. There will be pewter cups and plaques for the first 5 place finishers in each class. As we understand things the hunter class will be conducted under NBRSA rules (which means that all the IBS guns will be automatically eligible; the reverse would not be true), and the varmint for score class (conducted in two divisions; light varmint and heavy varmint) will be conducted under IBS rules (for the rather clever reason that the NBRSA does not contest this class).

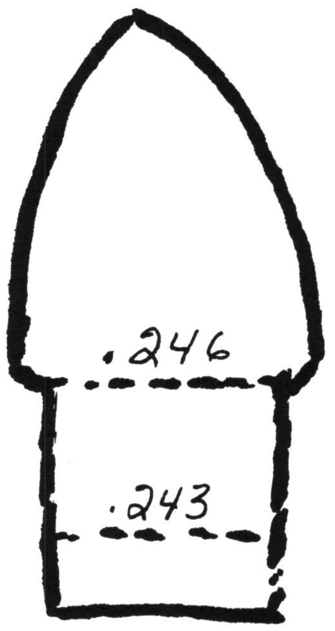
Sometime around 1985, when a few hunter class types were singing the blues to the editor . . . we're second class citizens in the benchrest world . . . nobody loves us . . . unhonored, unwept, unsung, the editor suggested, with childish enthusiasm, that a Super Shoot for hunter class rifles would be a good thing, and a good step toward getting the two organization's people meeting on a common ground, much as the original Super Shoot does a lot to bring the group shooters together. We offered to have PS magazine be a major sponsor, and promised our full backing and support. The idea was received in many quarters with all the enthusiasm as is usually accorded to the arrival of a mad dog. Followed by a stoney silence. Followed by the expressed opinion that maybe the editor should stick to editing, and keep his nose out of the hunter class world. Both groups seemed to feel that the sun rose and set in their Nationals (lukewarm attendance notwithstanding), and since we have obviously attained Nirvana, there is nothing else left to aspire to. The editor went his way, and thereafter shut his mouth . . . as requested.

We've got to like the way Lou Palmisano set this up, for May, 1992. First, the need for a Super Shoot type match for hunter class rifles is so obvious that he did not commit the editor's cardinal sin . . . that of inquiring about and discussing the obvious . . . so he went ahead and did it. Wonderful . . . we now have that out of the way. Second, we firmly believe that score shooting, down the road a bit, has a brighter future than group shooting, for a myriad of reasons. Among others: ease of scoring, no need for a moving backer, the layman being able to understand what the heck it's all about, etc. Many sections of the country . . . those regions where the NBRSA holds the turf . . . have had no exposure to the varmint for score game. Yet it's the easiest thing for a group shooter to try . . . just bring along your light varmint or heavy varmint class rifle, and we'll get this hootenanny underway.

By the way, the extensive improvement work at Council Cup (now the John Palmisano Memorial Range) has continued apace. There are now 55 benches, and 120 shooter's loading tables. Both areas are not only covered, they are also connected. So if it starts to rain . . . so what . . . you walk undercover from loading table to your assigned bench. The Wapwallopen Range, once considered the Crown Jewel of the Eastern ranges . . . looks as if it is having quite a rebirth. We'll all benefit.

Next, let us consider . . . what Holmes used to describe to his likeable stooge Dr. Watson . . . as The Singular Affair of Dr. Palmisano's victory at the Frejus Range (in France) in the 100 meter heavy varmint class. The victory was quite surprising, if for no better reason than the fact that the Doctor has been busy with a dozen projects recently, and success in shooting has been assigned a very low priority on his totem pole. And yet here he pops up with a winning .2413 100 meter agg beating some of the best shooters on the Continent. What was the good doctor doing differently?

Continued on next page



THE PALMISANO CLOCK CLEANER

EDITORIAL
Continued

Interesting question, that. Glad that you asked. The good Doctor was shooting a 54 grain 6mm reverse taper bullet of his own design. The **forward** pressure ring measures .246, and narrows to .243 further back. The fact that the pressure ring is up front, rather than at the base, gives constant contact in the rifling when the cartridge is inserted. See the editor's admittedly lousy drawing herewith . . . done to give the reader a better handle on what the heck we're talking about. Lou sent me two of them . . . and we promptly sent one off to the assistant editor; past experience has shown that when we can keep him occupied, he gets in less trouble than when he has nothing to puzzle over. Let me tell you . . . the darn thing looks a helluva lot different than "ordinary" bullets.

If my memory serves me correctly, Dr. Palmisano won the first match he entered with his 6PPC development back in 1975. Here in 1991, in his first match with his new development, he wins the 100 meter stage of a big match. Then runs out of the handful of bullets that he brought with him, has to shoot the 200 meter stage with ordinary-mortal bullets, and has a mediocre ranking at the longer distance.

If I owned $10,000 worth of custom bullet making dies . . . I'd be worried!

See you somewhere on the circuit. I'll be the one swearing over some loading problem or other.

Oh, yes . . . we're re-printing the article "Perfection at 60 Feet" . . . in this issue. Yes, we know that we ran it last month. This time we thought that we would also run the photos that accompanied the article, and which greatly add to one's comprehension of that article.

The Editor

CLARENCE HAMMONDS

NOW STOCKING

— Small base die (takes the base of the case down to original size). With special shell holder. $60.00

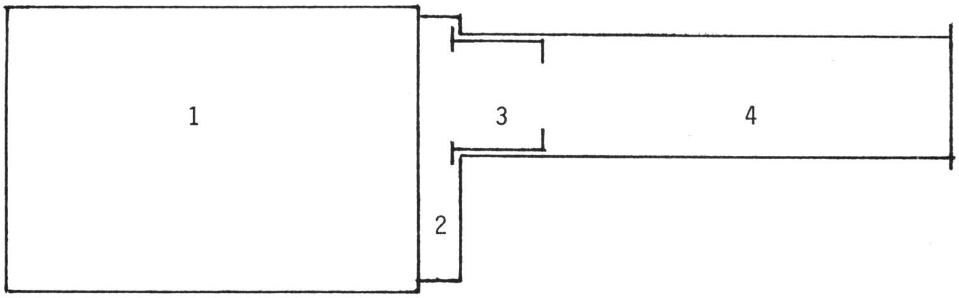
— Shoulder bump die, for Wilson bushings. Also neck sizes and decaps. $125.00

— Now making dies, to full length size with Wilson bushings. Will also bump the shoulder, and full length size. $150.00

HAMMONDS GUN SHOP
R.D. #4, Box 504, Red Lion, Pa. 17356
Phone (717) 244-7879

BARREL CONDOM

by L.L. "Pete" Peterson
Houston, Texas



1 Clear plastic jar
2 Lid to jar
3 PVC Bushing
4 Flanged Sink Tail Pipe

DOES YOUR GUN practice safe cleaning habits?

DOES YOUR GUN Leave contaminated waste products (dirty cleaning patches) all over your Gun Club, to annoy fellow members and leave the place a real mess?

DOES YOUR GUN put out a mist of cleaning fluid every time you brush?This could damage your Scope, when you forget to cover it.

Well here is the cure for all of the above ! ! !

A simple, inexpensive, easy to make gadget that solves the problem.

MATERIAL NEEDED

One "Klear Stor" 32 oz. clear plastic jar, purchased at the local Super Market, cost $2.49.

One 1½″ x 6″ Flanged Sink Tail Pipe, purchased at the Hardware Store, in the Plumbing Department, cost $1.49.

One 1½″ PVC Bushing, purchased at the same Hardware Store for 39¢.

Total cost $4.37

HOW TO ASSEMBLE

Determine where top center of lid is in relation to square jar. Cut 1½″ hole, OFF CENTER (see diagram), in lid near the top with a Hole Saw.

Next insert Bushing from inside the lid, and Super Glue in place. The Bushing provides strength and acts as a Barrel stop.

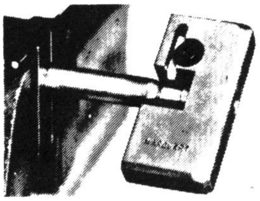
Last, place pipe over the Bushing from the outside of the lid and Super Glue in place.

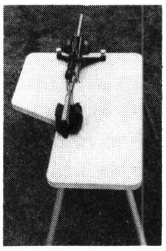
NOTE

An opaque plastic jar would work, but a clear jar permits inspection of the cleaning patch without having to remove the jar. A glass jar would be too heavy.

A 1¼″ pipe would make a better fit than the 1½″, if you can find it.

You may want to glue some pieces of rubber inside the pipe, to make a tighter non-slip fit. This would also center your Barrel in the pipe.


Turn case necks uniform within .0001 with this Marquart Neck Turning Tool — pilot diameters from .17 to .30 caliber. We specialize in rebarreling and conversions — and CUT-RIFLED barrels, 7mm to .45 caliber. Marquart Precision Co.; Box 1740; Prescott, AZ 86302; (602) 445-5646


ARMOR SHOOTING BENCH

THE FINEST PORTABLE BENCHREST AVAILABLE.

Heavy steel legs & rugged angled brackets. Large 1½″ thick heavy top. 29″W x 44″L x 33″ High. Easy setup. 3 Leg Model 55 lbs. $119.95. 4 Leg Model 65 lbs. $139.95. 3-4 Leg Combo Model 69 lbs. $149.95. Plus UPS. ARMOR METAL PRODUCTS, P.O. BOX 4609, HELENA, MT 59604. (406) 442-5560.

"THE REAMER PEOPLE"

jgs

Precision Tool Mfg.

ATTENTION

ALL GUNSMITHS DOING CHAMBERING

STOCK REDUCTION SALE

25% OFF PRICES LISTED ON HSS FINISH REAMERS BELOW

5225-HF	STD 10.75mm/68 H	157.00		5517-HF	STD 12.7mm/107mm H	201.80		5507-HF	STD 12.7mm/108 P.BB	201.80	
5535-HF	STD 14.5mm Russian	512.30		0278-HF	STD 17 K Hornet H	132.60		5536-HF	STD 20mm/M103 H	512.30	
0806-HF	STD 218 Bee Core Dr	67.60		0521-HF	STD 219 Zipper H	110.50		0828-HF	STD 22 AMAC LR H	61.90	
0830-HF	STD 22 American	103.00		0811-HF	STD 22 LR Sport/CAL	61.90		0802-HF	STD 22 LR Sporting	61.90	
0296-HF	STD 22 Win Mag w/o	61.90		0565-HF	STD 22/243 H	103.00		0814-HF	STD 220 Wby Mag	151.00	
0598-HF	STD 224 Harvey K-Ch	110.50		0737-HF	STD 224 Wby Mag H	153.60		1017-HF	STD 240 Gibbs H	103.00	
1603-HF	STD 25 BR Rem H	103.00		1533-HF	STD 25/06 Mashburn	103.00		1571-HF	STD 25/35 Ack Imp H	110.50	
1613-HF	STD 250 Fl Mag (Chi	110.50		2552-HF	STD 270/264 Win Mag	110.50		2541-HF	STD 270/300 Wby Mag	157.00	
2554-HF	STD 275 FL Mag (H&H	110.50		3026-HF	STD 280 RCBS Imp H	103.00		3756-HF	STD 30 American H	103.00	
3570-HF	STD 30 Remington H	103.00		3751-HF	STD 30 Set of 9 bus	94.30		3568-HF	STD 30/06 Headspace	126.00	
3508-HF	STD 30/284 Win H	103.00		3729-HF	STD 30/30 Win Gates	110.50		3580-HF	STD 30/378 Wolfe Lo	157.50	
3566-HF-T	STD 308 Win w/threa	103.00		3521-HF	STD 308/1-1/2 Water	103.00		4077-HF	STD 32 Smith & Wess	88.10	
4009-HF	STD 323 Wby Mag	157.00		4143-HF	STD 338/300 Win Mag	110.50		4125-HF	STD 338/358 Win H	103.00	
4059-HF	STD 338/378 KT H	157.50		4048-HF	STD 338/416 Sniper	132.60		4044-HF	STD 338/50 Spotter	201.80	
4551-HF	STD 35 Ack Mag Imp	110.50		4504-HF	STD 35 Brown Whelen	103.00		4536-HF	STD 356 Winchester	110.50	
4532-HF	STD 357 Herrett H	110.50		4582-HF	STD 357 Mag Accy H	88.10		4595-HF	STD 357 Rem Max (Ga	88.10	
4561-HF	STD 357 Rem Max Min	88.10		4620-HF	STD 357 Rem Max(Gat	88.10		5058-HF	STD 375 Ack Mag Imp	110.50	
5122-HF	STD 375 Super Mag H	88.10		5007-HF	STD 375/50 m.g. fin	201.80		5209-HF	STD 38 AMU H	72.70	
5219-HF	STD 38 Long Colt H	88.10		5221-HF	STD 38 Smith & Wess	88.10		5189-HF	STD 38 Spec P Bbl H	88.10	
5049-HF	STD 38/56 Min H	110.50		5166-HF-S	STD 404 RL NE 3deg.	157.00		5300-HF	STD 41 Action Expre	72.70	
5315-HF	STD 41 Rem Mag P.BB	88.10		5073-HF	STD 411/338 Win Mag	110.50		5075-HF	STD 416 Hoffman H	110.50	
5270-HF	STD 425 Westley Ric	157.00		5144-HF	STD 44 Auto Mag H	72.70		5197-HF	STD 44 S&W Special	88.10	
5257-HF	STD 44/90 Sharps H	110.50		5095-HF	STD 444 Marlin H	110.50		5299-HF	STD 45 ACP-threaded	94.80	
5207-HF	STD 45 Win Mag H	72.70		5100-HF	STD 458 Win Mag JGS	88.10		0762-HF	STD 5.6mm/50 R Mag	110.50	
0763-HF	STD 5.6mm/52 R H	110.50		0764-HF	STD 5.6mm/57 R H	110.50		5512-HF	STD 50 BMG JC Imp H	201.80	
5529-HF	STD 50/110 H	110.50		5533-HF	STD 50/90 Sharps St	110.50		5516-HF	STD 505 Barnes Supr	157.50	
5555-HF	STD 577 NE 3" H	200.00		5551-HF	STD 577/450 Sld Mar	132.60		5523-HF	STD 585 Nyati H	132.60	
2117-HF	STD 6.5mm BR Rem	103.00		2108-HF	STD 6.5mm Set 9 bus	94.30		2029-HF	STD 6.5mm/06 Ack H	103.00	
2005-HF	STD 6.5mm/284 Win.	103.00		2059-HF	STD 6.5mm/50 BMG H	201.80		2070-HF	STD 6.5mm/50R Mag H	110.50	
2063-HF	STD 6.5mm/68 H	110.50		1024-HF	STD 6mm American Mi	103.00		1016-HF	STD 6mm Arch min ch	103.00	
1068-HF	STD 6mm/1.75 PPC Be	103.00		1069-HF	STD 6mm/1.75 PPC Wa	103.00		1056-HF	STD 6mm/22-250 Rem	103.00	
1224-HF	STD 6mm/225 Win	103.00		1180-HF	STD 6mm/5.6x50 R Ma	110.50		5584-HF	STD 700 H&H NE 3 1/	232.40	
3089-HF	STD 7mm Ack Mag H	110.50		3216-HF	STD 7mm American	103.00		3069-HF	STD 7mm INT-R H	110.50	
3066-HF	STD 7mm Mash. Super	110.50		3002-HF	STD 7mm PPC H	103.00		3194-HF	STD 7mm Set of 9 bu	94.30	
3210-HF	STD 7mm Super Mag I	110.50		3043-HF	STD 7mm/08 conv. H	103.00		3044-HF	STD 7mm/223 Gates H	103.00	
3223-HF	STD 7mm/225 Win	103.00		3184-HF	STD 7mm/378 Wby Mag	157.50		3077-HF	STD 7mm/57 R H	110.50	
3076-HF	STD 7mm/65 R H	110.50		3024-HF	STD 7mm/66 SE v Hof	103.00		3208-HF	STD 7mm/7.62x39 Lap	103.00	
4016-HF	STD 8mm/06 H	103.00		4099-HF	STD 8mm/56 R M30 H	110.50		4005-HF	STD 8mm/57 Mauser H	103.00	
4019-HF	STD 8mm/60 H	103.00		4511-HF	STD 9.3mm/62 H	103.00		4600-HF	STD 9.3mm/72 R H	110.50	
4526-HF	STD 9.3mm/74 R H	110.50		4601-HF	STD 9mm Steyr	72.70					

ALSO ON SALE: ALL SHOTGUN TOOLS 50% OFF ALL TUNGSTEN STEEL REAMERS $25.00 ea

Hurry and order today! Items only on sale while quantities last!

"The Reamer People"

1141 S. Sumner Rd.
Coos Bay, Oregon 97420
USA

Office Hours: 7:30 a.m. to 4:15 p.m. PST
Phone: 503-267-4331 • FAX: 503-267-5996
CALL OR WRITE US:

MasterCard

Immediate Shipment
The Easy Way

VISA

PERFECTION AT 60 FEET

by
John C. Benyo

You peer through the 30x Unertl at a small white cardboard disk just 20 yards downrange. The fine crosshairs quarter the target's tiny center point. With the 35 lb. custom rifle solidly on its rests, you confidently apply pressure to the 2 oz. trigger and the R-50 round delivers its 39 grain payload. But, to your amazement, the rig jumps far more than expected. Inexplicably, the shot prints high right, about .090" off center – A REAL STINKER!!! From under your breath a muffled "Aw (insert expletive of your choice)!" is heard. But such setbacks are common and are to be considered learning experiences (sure they are – then I must learn VERY slowly!) for the shooter who pursues:

"PERFECTION AT 60 FEET"

While BR-50 competition has emerged in recent years, another type of rimfire stool shooting has been thriving for decades at a handful of western Pennsylvania clubs. Commonly called "Bottlecap" matches, their name is derived from the 1.665" diameter x .045" thick die cut cardboard targets used. These disks resemble the lids employed on glass milk bottles of yesteryear, consequently the designation – "Bottlecap".

The object of these indoor contests, which consist of 13 one shot "rounds" or relays, is neither traditional score nor group shooting. Rather, the basic concept is to bore one's target as close to dead center as possible and score .000" when measured against a dial indicator – a perfect pinwheel.

Shooting is done at either 60 or 90 feet depending on the club involved. Any rifle chambered for the standard .22 rimfire is legal. There are neither weight restrictions nor limitations on scope power. Regardless of a shooter's equipment, there is no handicapping, all compete on an equal basis. Sound intriguing? It is! Seem ridiculously easy? IT AIN'T!!

Perhaps the most disruptive factor in this search for perfection is the fact that only one shot per relay is fired, no sighters once the match begins. After firing a record shot, the shooter must lift his rifle onto an overhead rack while the targets are collected, measured, and scored. Thirteen setups without sighters does introduce an element of inconsistency. Virtually every shooter has noticed that pre-match practice yields more uniform results than actual competition. Why? The rig isn't moved between shots.

As a result of this constant movement, rifles must have a bipod or similar front rest attached securely to the forearm. On conventional target stocks, the device is normally secured to the accessory rail, but on custom jobs it is usually bolted or clamped. A few are even fastened directly to the barrel without any apparent dire results. At the butt end, some shooters employ a sand bag while others use a finely threaded elevation or "jack" screw inletted into the toe of the stock. The rounded or sharpened end of this screw in turn rests in a base adjustable for windage. These bases are quite similar to those used on heavy bench centerfires, although built on a much smaller scale. I've tried both approaches and have personally experienced more consistency with a sand bag. Conversely, shooters with well machined mechanical rests disdain the bag approach.

How do you determine what your target actually measures? At the Blairsville Sportsmens' Association's 6 bench, 60 foot range, where I regularly humiliate myself, the target measuring device is a custom machined brass/steel affair. It consists of an arbor, the diameter of a .22 rimfire bullet, over which the target to be measured is placed face down – bullet hole over arbor. A wire loop is used to gently press the target onto the arbor and down to a flat base plate. Next, a flat-bottomed weight is placed over the arbor and target to keep the disk from slipping or bending. The target is then spun with a thumbwheel 360°, its edge riding against a .001" dial indicator. The runout is recorded both on the target and scoresheet. Measurement requires longer to explain than to accomplish.

The objective obviously is to pop a perfect .000". While a number of "triple oughts" have been fired over the years, and they seem to come in bunches, they are certainly not common. In the few years I have been competing, I have only witnessed perhaps ten. Three were drilled by Ernie Howard, a rather large fellow with an impish grin who ramrods the weekly Blairsville shoots. Normally, it takes a shot of .020" or better to win an individual relay, but on occasion, even an .010" or so won't get you into the

1ST PLACE
WESTERN CANADIAN NATIONALS
TWO GUN GRAND AGGREGATE

GAILLARD
BARRELS
*PRECISION RIFLE
BARRELS

• BUTTON RIFLED • HAND LAPPED
• STAINLESS BENCH REST QUALITY
• also CHAMBERING AND ACCURIZING

TED GAILLARD
P.O BOX 21
PATHLOW, SASK., CAN., SOK 3BO
PH # (306) 752-3769

NOW AVAILABLE
Accurate®
Smokeless
Powders

ACCURATE No.5
ACCURATE 1680 SMOKELESS POWDER

From:
ROBERT H. HART & SON, INC.
401 MONTGOMERY STREET
NESCOPECK, PA 18635
(717) 752-3655
DEALER PRICING AVAILABLE

money. At a contest several years ago, the aforementioned Mr. Howard and Bob Gabelli, another veteran competitor, shot perfect targets **in the same round**! As ties are broken by the best shot of the deadlocked participants in the following round, one of those gents had to settle for a second place target that measured .000"! Despite their concentricity, individual targets often very a few thousandths one to another. Incidentally, targets come unmarked and each shooter marks his own centers using a die which he makes or obtains from one of the machinists in the group. Centers vary from pin points to plain circles to concentric circles to colored dots replete with windage and elevation markings.

While certainly unwelcome, shots in the .080's, .090's, and even .100's creep into everyone's aggregate. Also, every body has a horror story about the night one leaked out .200" or even .300". The usual explanation for this phenomenon is the legendary "bad shell". These "astronauts" can put a substantial crimp in your evening when you consider that the winning aggregate usually totals somewhere in the .400's and those in the .300's are not unusual.

A first and second place prize is paid for each round or relay. Additionally, the most coveted prize is paid to the shooter with the smallest total aggregate for the first 12 rounds. Other awards go to the shooter who garners the most first place targets and to the one with the best individual shot of the night. Lastly, the 13th round is a winner-take-all shot for dimes, one from each shooter, but it is not scored in the aggregate – sort of a warm-up match in reverse. It's obvious that there are many ways to win something no matter how horrible your last shot or how badly ballooned your aggregate. Years ago, shooters were paid off in groceries, but today cash is the medium.

What sort of armament is employed? You will find examples of virtually every major rimfire target gun: Winchester 52s and Anschutz 54s in their various configurations, Remington 37s, a few old Ballard falling blocks, and even a couple of centerfire Mausers converted to rimfire. The most popular and sought after product however, is the Remington 40-X for the very reasons that centerfire gunners like them. Among these are numerous custom affairs which range from the simple rebarreling of a factory gun to full blown unique items. While the market would be extremely small, I wonder how a true custom heavy bench rimfire action would perform in such competition. Are you listening Mssrs. Hall, Hart, and Kelby?

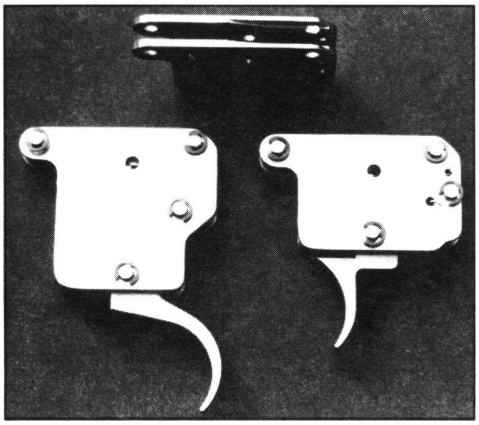
My own monstosity began life as a Remington 40-X rimfire factory barreled action which R.W. Hart & Son rebarreled with a 24" x 1 1/4" Hart tube. Shilen Rifles then encased the action in one of their 2" x 2" x 14" half-octagon square sleeves (no longer available from Shilen), lengthened the bolt handle, and bedded the works in a Brown/Six unrestricted fiberglass stock. A Hart 2 oz. trigger and a Unertl 30X 2" target scope with posa mounts round things out. Some of the local wags refer to it as the "green monster" (no, I've never been to Fenway Park) because of its metallic green paint. Weight is a bit over 30 lbs. The foam filled forearm did present problems when considering a semi-permanent front rest. Mickey Matviya, who conveniently is my father-in-law, concocted a walnut and aluminum device which clamps solidly to the forearm yet does not distort or damage it.

Hart barrels are by far the most popular of the custom tubes in use, but products from Douglas and sometimes even an old Johnson barrel grace the line. Wooden stocks still predominate but a few fiberglass/graphite/kevlar stocks have begun to appear. In the glassware department, the Unertl 2" and 1 1/2" versions along with the old Lyman Supertargetspot prevail. The Unertls are big and heavy, but in my opinion, their optics are incomparable. The short, internally adjustable glasses have been used from time to time but have not thus far been enthusiastically embraced by the bottlecap fraternity. Dominant powers are in the 20X-24X range with some shooters going as low as 10X or 12X and others as high as 36X. I feel that going below 20X is simply an additional handicap. With individual rounds and entire matches sometimes determined by a mere .001", the click value of the scope in hand is critical. Most shooters feel that despite their optical excellence, no scope currently available provides fine enough adjustments. This requires some degree of holding off or shading by virtually every competitor. Fortunate is the gent who has his rig printing dead on at 60 feet. The simple change of ammo lots usually requires several clicks to rezero.

While custom rigs are usually objects of pride and often considerable discussion, and can sometimes even help make up for a shooter's (insert author's name here) inadequacies, they are certainly not a requirement to be competitive. I cite Oliver A. "Whitey" Cunkelman, who regularly vies for the best aggregate score at Blairsville and who has hammered three perfect .000" disks. His weapon – a pristine factory Remington 40-X with a four digit serial number that reads – 00--!

As for table techniques, the majority of competitors shoot absolutely free recoil, pinching only the trigger and back of the guard. Others have noted that while this method yields a number of very good shots, it can also produce some very bad ones. Consequently, some gunners, including yours truly, apply a degree of pressure to the buttstock. But how much and with what consistency? That is the jackpot question. As in any type of

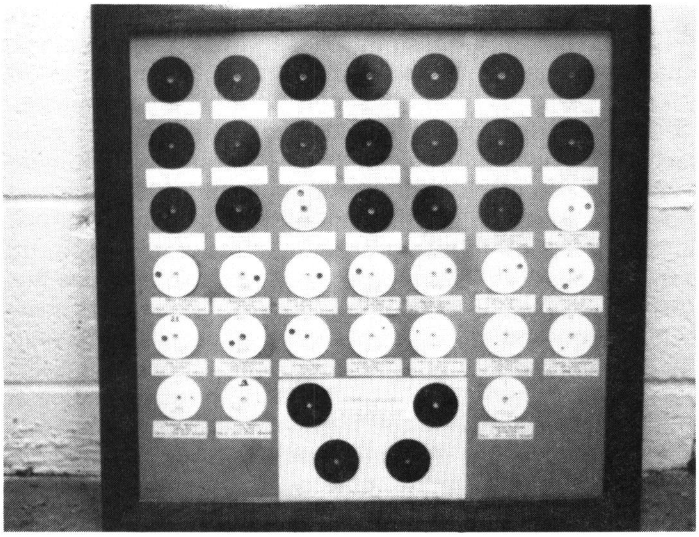
Continued on page 10



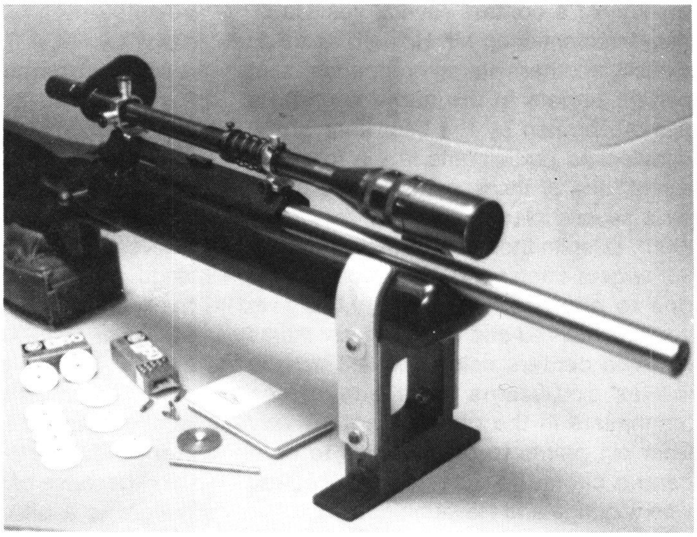
Quality Triggers in Standard Size or Low Profile . . .

- Solid Steel Housings
- Fully Adjustable
- Relieved for Cocking Piece Clearance
- Standard, Varmint & Target Models
- Low Profile Model with Optional Trigger Positions
- Safety Provisions on Most Models
- For a **FREE** Detailed Brochure Write or Call:

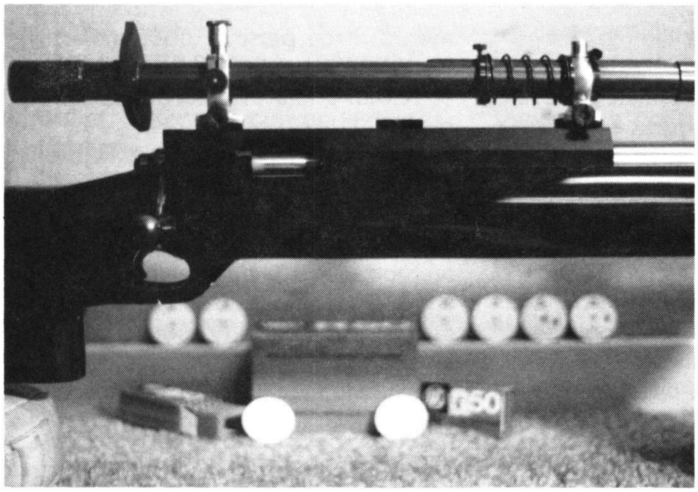
RIFLE BASIX
P.O. Box 25610-152
Charlotte, NC 28227
Tel: (704) 545-1265 FAX: (704) 545-1940

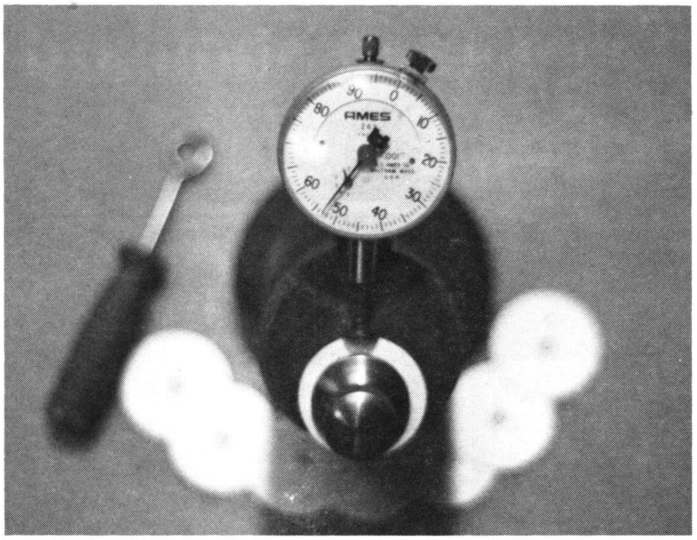


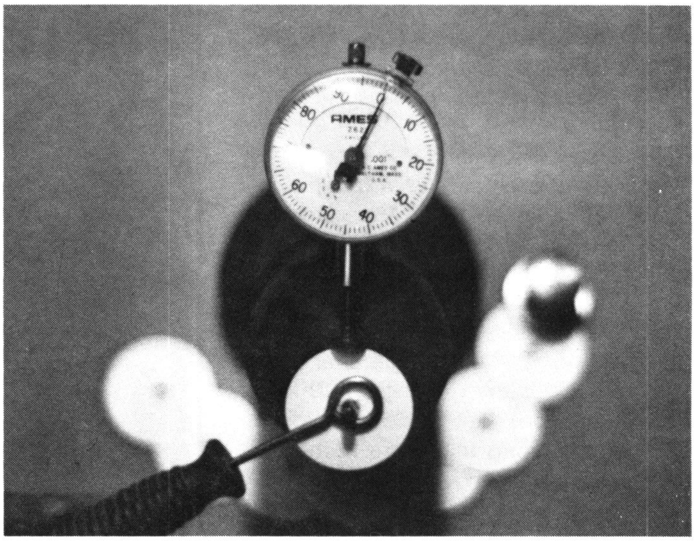
Perfection achieved!!! The perfect .000″ targets shot in competition at the Blairsville club. Black are off hand — white are bench. Four targets at bottom were shot by the late Frank Curatti — all off hand — two on consecutive shots in the same match!



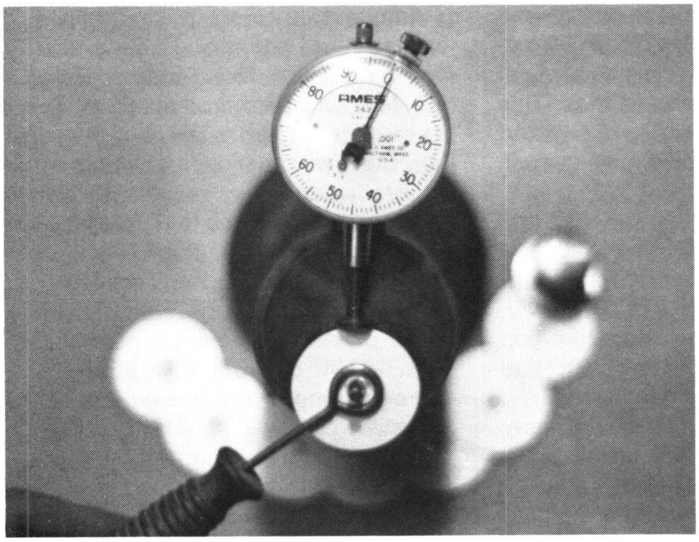
Several different views of the author's Hart/Shilen/Six 40-X rimfire. Note front rest.



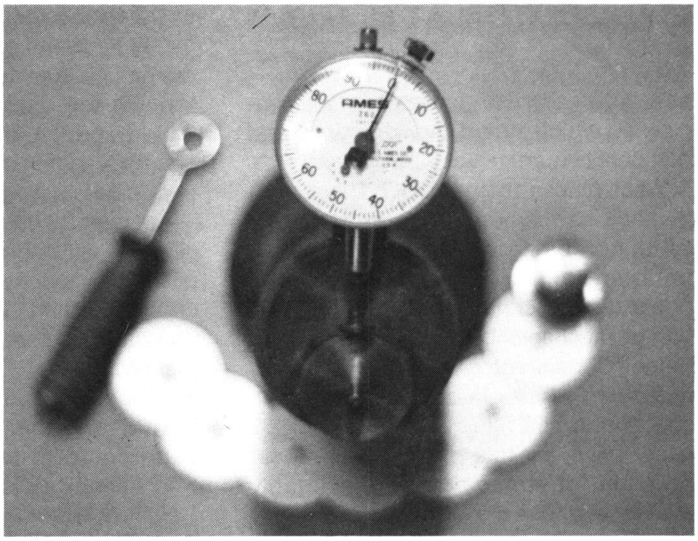




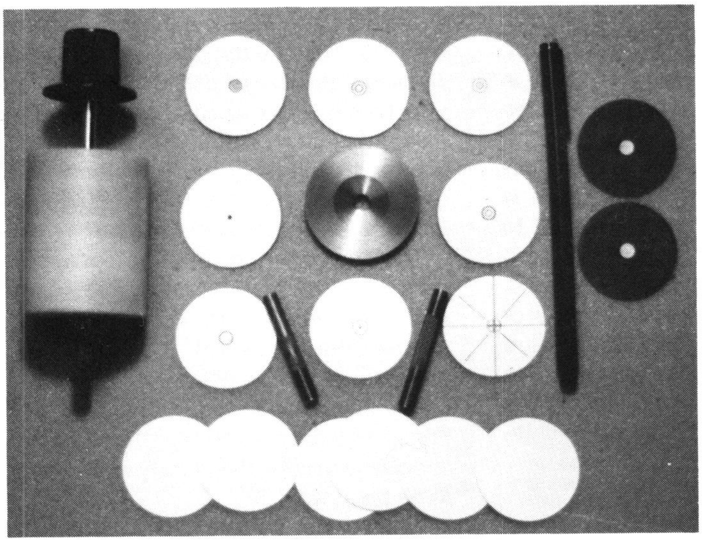
A weight is placed over the assembly and the target is spun 360° with a thumbwheel. If needle falls between lines — lower number is scored — favoring shooter. This target measures .053″ — genuine mediocrity. The author is VERY familiar with targets like this.



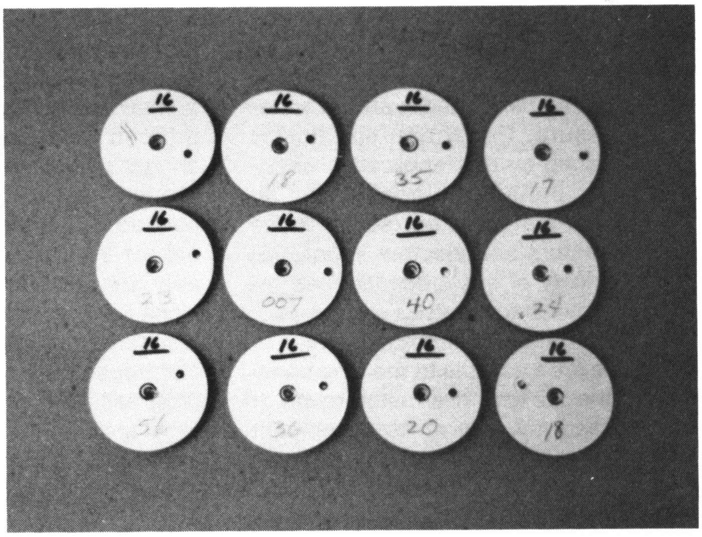
Target is placed over arbor then pressed down to the base plate with a wire loop.



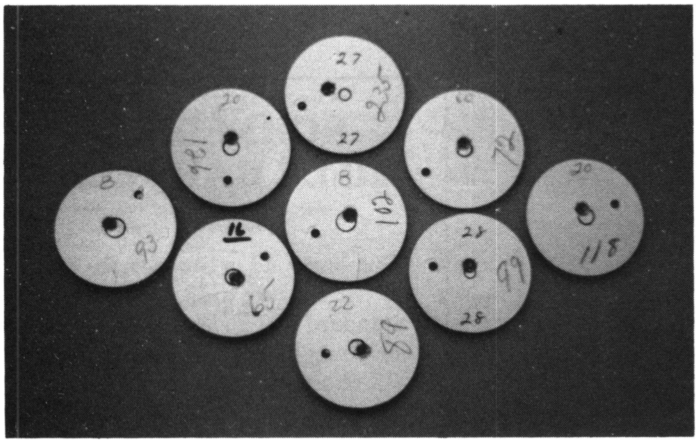
The Blairsville Sportsmen's Assoc. target measuring tool. Note arbor at center which accepts target to be measured.



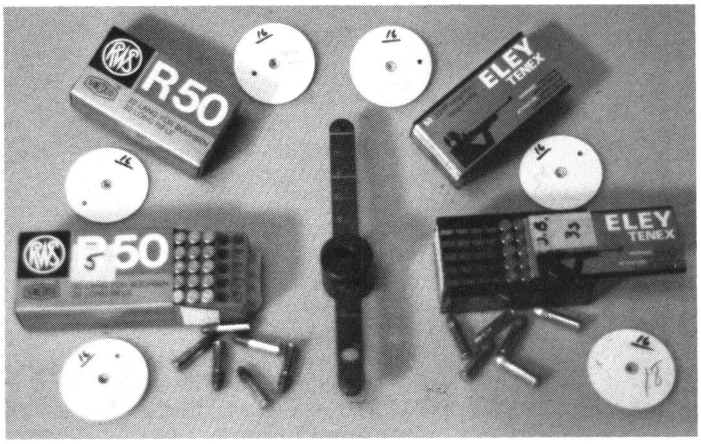
Blank targets are marked with an aiming point using a die like this brass one (center). Either an inked rod with a machined face or a pen or pencil is used. Note variety of aiming points. Black targets are off hand disks show for comparison. Die at left is made of nylon and steel by Jack Harsh. It is used to cut the white centers in the off hand disks.



The runout of this shooter's 12 record targets totals just .305" — good enough to win most matches or scare the hell out of the guy who does.



A few targets with "major ugly" on them — showing that not all shots are good ones at any match. Shooters' names are being withheld to protect the author.



Eley Tenex or RWS R-50 are used by the majority of competitors. Sorting them with a gauge like that by Neil Jones (center) is done by a number of shooters. Some feel this is advantageous, others think is insignificant.

PERFECTION AT 60 FEET
Continued

shooting, each rifle has its own idiosyncracies which only time, practice, and competition can reveal.

What makes them shoot? There exist perhaps as many opinions as shooters. All things being equal; decent barrel, bedding, ammunition, and optics, _ one's table techniques and rests, sand bag or mechanical, are of utmost importance. Consistent repeatable aiming is necessary just as in any form of bench shooting. If you think a 10 1/2 lb. 6PPC is sensitive, try this game. ANY, repeat ANY hint of stress or strain invariably results in a lost shot despite the heavy rifles and pipsqueak cartridge involved. These rigs are extremely user unfriendly. A few shooters have taken an additional step by removing both the extractor and ejector mechanisms from their bolts.

With this arrangement, the theory is that the cartridge is completely at rest when chambered, without any extraneous pressure. Extraction/ejection is accomplished by deft application of fingernail or penknife blade. Rifles so altered win matches, but so do those with extractors and ejectors intact. So, the superiority of this procedure has yet to be clearly demonstrated.

Some of the difficulties encountered in this game are traceable to the long barrel time of the .22 long rifle match round. It has crossed my cranium to experiment with a barrel of say 24" length, but with only 14" or 15" or rifling. The muzzle end would be bored out to say .25 or .30 caliber, much the same principle as some of today's top shelf match air rifles. This would reduce barrel time, but would accuracy suffer and would making such a tube be practical?

Another critical matter is to KNOW the absolute zero of your rifle. This is accomplished by plenty of shooting and self-critiquing. Then , when a shot goes awry, you can be reasonably certain that you and not the equipment is the culprit. You do see plenty of clicking during matches, but for me, this introduces too many variables and too much uncertainty where simplicity is seemingly the goal.

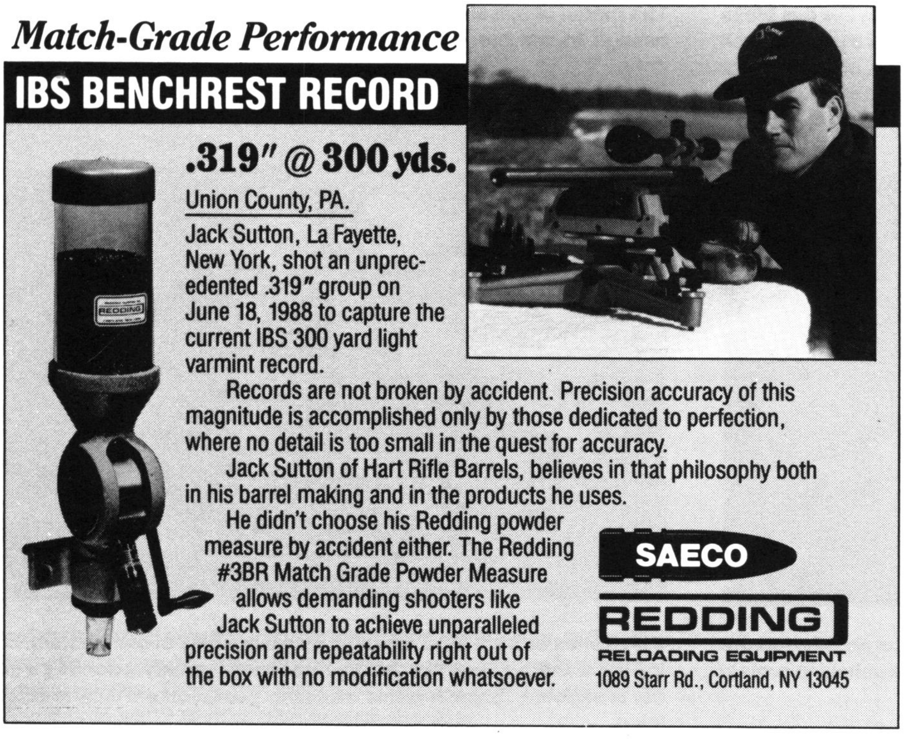
By the way, if you think that holding these contests indoors eliminates the need to watch downrange conditions, you're wrong. While you don't get mirage that shimmers, boils, or produces a waterfall effect, you are dealt a much more subtle up and down condition, somewhat akin to being an open water in a small boat. This sinister force is often difficult to decipher until the results appear on your target. It is more readily visible in the winter when the furnace is needed. Baffles have been installed to deflect the warm air, but moans invariably are still heard whenever the heat kicks on. You will also earn a glare or discouraging word should you open a clubhouse door while festivities are in progress. The feeling is that even this slight shift of internal atmosphere is sufficient to effect bullet impact.

Among competitors, price, quality, and availability of ammunition are perennial concerns. Either Eley Tenex or RWS R-50 are used by most competitors. Some veterans feel that the Tenex of the paper box era was superior to anything available today. In recent months, a number of shooters have gone to R-50 with good results. It is cheaper than Tenex, definitely cleaner burning, and seemingly just as accurate, although some feel it is more prone to throw an inexplicable flyer. For the record, the smallest 12 target aggregate of the modern era at the Blairsville club was shot by Bob Gabelli on 3/30/89 in a Hart barreled 40-X using R-50. That aggregate totalled just .267", a tad over .022" average runout per shot – WOW!

Some fellows sort their cartridges with one of the gauges offered by Neil Jones or Freeland. I use one of the former and believe it does help – a little. But whenever .001" can be the difference between winning and losing – a little can be a lot if you follow my convoluted logic. The gauge has convinced me that some lots are most definitely more uniform than others and more uniformity should logically translate into better results.

The hard core group of bottlecappers here have seen to it that the three clubs in this immediate area: Vandergrift (60 ft. range), Blairsville (60 ft. range), and Laughlintown (90 ft. range), schedule their matches on Monday, Thursday, and Friday nights respectively. This enables shooters to make the weekly circuit of all three matches.

If you prefer your frustration with a little different twist, these clubs also stage offhand matches using bottlecap targets with two minor changes. Offhand disks are a bit smaller in diameter than the bench targets and are black for use on a white background with aperture sights.



Match-Grade Performance

IBS BENCHREST RECORD

.319" @ 300 yds.

Union County, PA.

Jack Sutton, La Fayette, New York, shot an unprecedented .319" group on June 18, 1988 to capture the current IBS 300 yard light varmint record.

Records are not broken by accident. Precision accuracy of this magnitude is accomplished only by those dedicated to perfection, where no detail is too small in the quest for accuracy.

Jack Sutton of Hart Rifle Barrels, believes in that philosophy both in his barrel making and in the products he uses.

He didn't choose his Redding powder measure by accident either. The Redding #3BR Match Grade Powder Measure allows demanding shooters like Jack Sutton to achieve unparalleled precision and repeatability right out of the box with no modification whatsoever.

SAECO

REDDING
RELOADING EQUIPMENT
1089 Starr Rd., Cortland, NY 13045

SCHNEIDER RIFLE BARRELS, INC.

Pull buttoned in Stainless Steel.
22 RF thru .375 calibers.
Standard and custom contouring,
including fluting with lapping and
stress relief **afterwards.**

GARY SCHNEIDER
12202 N. 62 PL.
SCOTTSDALE, ARIZONA 85254
TEL. (602) 948-2525

At Blairsville, offhand shooting is done at 50 feet and only from the standing position. Palm rests, butt hooks, and balance weights are permitted. Jackets and gloves, however, are verboten. Anschutz rifles, usually the 1400 or 1800 with Anschutz sights along with the old Winchester 52s wearing Redfield Olympics are most popular. Ammunition is still a concern, but since one's hold is fleeting, CCI Green Tag, Eley Match, and Eley Club are popular choices. In contrast to the laid back tempo of the bench matches, offhand shoots move quite briskly and consist of 20 rounds. Any shot under .100" is considered "middlin", but it often takes a target well under .050" to win an individual round. And yes, there have been a number of perfect pinwheels shot offhand!

If you are interested in further information about bottlecap shooting contact – Ernest Howard, RD#2 Box 1830, Homer City, Pa. 15748 – (412) 479-3701.

John C. Benyo
114 Orchard Drive
Latrobe, Pa. 15650

BRUNO SHOOTERS SUPPLY

BRUNO BRUSH SPECIAL
10% off all brush $8.33

ADJ. SHOOT STOOL
Padded Seat Solid Oak $39.95

H322 - 8 lbs. - $95.00

New Bunny - Heavy Bottom & Sides
New Rabbit - Heavy Bottom & Sides
$24.95

Federal 205m Primers per 1000, Sm. or Lg.	$ 19.95
Rem. 7½m Primers per 1000, Sm. or Lg.	16.95
Hornady - 6PPC Full Length	18.95
Bonanza F.L. Size Dies 22 or 6PPC	20.95
Hart Rifle Rest (Varmint)	99.95
J-4 Jackets 22 cal.	49.95
J-4 Jackets 6mm	46.95
Kleinendorst Bolt Disengagement Tool	21.95
Lee Auto Prime (2 trays)	13.95
Davidson Bullet Puller 2 hole 12.95 3 hole	13.50
Uncle Mike's Scope Caps	10.95
Bushnell Lt. Wt. Scope Rings	10.95
Comparitor Micrometer (carbide) reads in millionths	199.95
Dial Caliper 6" Mitutoyo	85.00
Dial Caliper 6"Stainless Steel	34.95
Ball Micrometer	84.95
Standard 1" Micrometer 1-10,000 carbide	25.95
Lyman Culver Powder Measure	195.00
PPC Cases Sako-USA	.59
Shooting Stools, solid oak w/vinyl padded seat	39.95
Never Dull - can	2.95
Whitetail Carbide Primer Pocket Uniformer	21.95
Bruno Aluminum Side Tension Rest Top	48.00
Bruno 310 Tool Neck Size Die, Accepts Wilson Bushings (Less Bushing)	75.00
Bruno Custom Bolt Holster	13.50
Bruno Custom Scope Covers (Specify model)	
New 36X Leupold	12.95
Old 36X Leupold	12.95
Bausch & Lomb	12.95
Bruno Loading Block (PPC), Lucite, Holds 20	12.95
Bruno Delrin Loading Block, White, holds twenty	11.95
Hart Rifle Barrels, HV-LV	199.95
Bald Eagle Front Rest	139.95
Book, "The Ultimate in Rifle Accuracy," Newick	34.95
Best of Precision Shooting	8.50

Cleaning Supplies

Bruno Custom Core Brush		
New 17 Cal Rifle Per Piece - Dew or PH		$ 1.75
22, 6mm, 25, 6.5, 270, 7mm, 30, 303, 8mm, 338, 35, 375, 458	Per Dozen	8.33
Pistol - 22, 38, 9mm, 41, 44, 45	Per Dozen	8.33

Bore Guides with O Ring -

Rem, Hart, Stolle, Shilen, Winchester (State Caliber — be specific)	12.95
Hall, Wichita, other	14.95
Bore Guide Insert	3.95

Patches - Bruno Cotton Flannel

22 Cal 1⅜ Square Per M	7.95
6mm Cal. 1¾ Square Per 500	5.75
6mm or 30 Cal 2" Rd. Per 500	6.50
1¼" Round Per M	7.95

Shooter's Choice #7

2 oz. w/applicator	2.50
4 oz.	3.95
16 oz.	12.35
Gun Grease, 10 cc. Syringe	2.50
Rust Preventative (Aerosol)	2.57
Quick Scrub cleaner-degreaser (Aerosol)	2.85
Shooters Choice Copper Remover	4.05
Shooters Choice Black Powder Gel	3.90

Lube - Solvents - Solvent Bottles

Bruno - Bolt Lube Plastic Syringe	2.95
Bruno Solvent Bottles Leak Proof 2 oz.	3.00
Bruno Solvent Bottles Leak Proof 4 oz.	3.25
Sweets 7.62 Solvent 8 oz.	6.45
Hoppies 4 oz. Benchrest Solvent	4.95
Hoppies 16 oz. Benchrest Solvent	12.95
Hoppies #9 2 oz. bottle	1.40
Hoppies #9 4 oz. bottle	4.75
Hoppies #9 32 oz. bottle	8.75
Hoppies #9 Gallon can	32.95
Hoppes #9 (old w/Nitro) - Pint	9.95
Hoppes #9 (old w/Nitro) - Qt.	13.95
Hoppes #9 (old w/Nitro) - Gallon	45.00
Hoppies #9 16 oz.	5.45

Sweets - Swabs

22 Sweets Swabs		.85
6mm Sweets Swabs	SPECIAL	.85
7mm Sweets Swabs		.85
30 & Up Sweets Swabs		.85
Chamber Swab - PPC, .222, 7mm, .308		.85

Bruno Bullets per 100

22 Cal. 52 Grain FB	10.95
New 22 Cal. 57 Grain FB	10.95
New 22 Cal. 63 Grain FB	10.95
6mm 63, 65, 68, 70 FB	11.50
6mm 63, 65, 68, 70 BT	11.95
New 6mm (9-S) FB or BT	13.00
(Min. Order 500 per caliber and weight)	

Sinclair Products

Sinclair Arbor Press	62.50
Sinclair Neck Turner - Two Calibers Complete	55.95
Mandrel for Neck Turner	9.75
Sinclair Concentricity Fixture	37.00
Sinclair Dial Indicator	35.00
Sinclair Rifle Caddy - Stand - 1 Caliber	30.00
Sinclair Rifle Caddy - Stand - 2 Caliber	51.00
Sinclair Side Tension Rest Top (New 1986)	43.00
Sinclair Action Cleaning Kit	17.75
Sinclair Pill Bottle Adapt. Lyman, Reading	18.50
Sinclair Neck Expander 2 Calibers	25.15
Sinclair Case Length Trimmer Mini, 22, 6mm	16.00
Sinclair Bolt Disengagement Tool Remington	16.75
Sinclair Deluxe Deburing Tool with Shouldered Top Large Flash Hole	15.75
Sinclair Deburing Tool - Flash Hole PPC	15.75
Sinclair Powder Measure Bracket	13.50
Sinclair Seating Depth Comparitor 6 Calibers	11.50
Carbide Phase II Primer Pocket Uniformer	
Carbide, Small Rifle, plastic handle	18.50
Carbide, Large Rifle, plastic handle	18.50
Carbide, Large Pistol, plastic handle	18.50
Drill Press Type, small rifle - carbide	13.50
Drill Press Type, large rifle - carbide	13.50
Drill Press Type, large pistol	13.50

Parker Hale Coated Rods

17 Cal. - 32" Coated Rifle	19.95
17 Cal. - Jag	2.65
22, 6mm, 30 - 37" Rifle Rod	19.95
22, 6mm, 30 - 44" Rifle Rod	19.95
Jag or Adaptor Per Piece	2.65

Dewey Coated Rods

22, 6mm - 36" Rod	15.75
22, 6mm - 44" Rod	16.95
30 Cal. - 36" Rod	16.95
30 Cal. - 44" Rod	17.25
Jag - 22, 30	2.65
Adaptor 22, 30	2.65
Dewey 17 cal. Jag	2.65
Dewey Coated 17 cal. - NEW	20.95

Wilson

Case Trimmer	23.95
Case Holder	4.25
Neck Size Die, Less Bushing	29.95
Straight Line Bullet Seater	29.95
Bushing, Reversible	7.15
Full Length Resizing Die	15.30

Redding

New Redding BR-30 Powder Measure (New for '90)	79.95
Redding (3-BR) Match Grade Powder Measurer	65.70
Redding (3BR-P) Match Piston Chamber	65.70
Redding (3BRK) Match Grade both Chambers	83.70
Redding (RS-6) Bench Stand for above Measurers	14.00
Redding Full Length Size Die, 22, 6PPC, BR, other	25.95
Redding Standard Shell Holder #12 PPC	4.75
Redding Extended Shell Holder #12 PPC	5.95

Scopes

Bausch & Lomb 36X C.H.	339.95
Bausch & Lomb 36X Dot	344.95
New Leupold (X-Hair) 36X	457.95
New Leupold (Dot) 36X	469.95
New Leupold (X-Hair) Silver 36X	484.95
New Leupold (Dot) Silver 36X	496.95
Saunders Scope Shades	Specify Model

Tuller Sand Bags - Protektor Model

(New) Rear Heavy Duty Custom	23.95
Tuller Sand Bags Rear, Bunny, Rabbit	13.25
Tuller Sand Bags Front #1 Hunt. Rifle	8.95
Tuller Sand Bags #2 2½" competition	8.95
Tuller Sand Bags #3 3" wide	8.95
Tuller Standard Hvy Bottom	15.40

Triggers

Jewell - Standard 2 oz.	139.95
Jewell - H.V.R. Adjustable 1.5 oz. to 4.5 lb. — with safety (Fits Rem. Type)	199.95
Hart - 2 oz. (Fits Rem. Type)	99.95
Canjar LP 2 oz. (Fits Rem. Type)	126.95

WE ARE A REDDING DEALER

H-322 8 lbs.	95.00
Newick Ulitmate in Rifle Accuracy	34.95
Bruno Oak Adjustable Shooting Stool (Padded)	39.95

We are a Sweets 7.62 Distributor

Davidson Barrel Vise	35.95
Davidson Rear Entry Wrench (state action)	31.95
Davidson Side Port Wrench	31.95
Hammond's F/L Die - Wilson Bushings	150.00
Hammond's Shoulder Bump Die - Wilson Bushings	125.00
Hammond's Base Die	70.00

K&M Tools

K&M Peewee Internal Deburring Tool 17 cal.	9.50
K&M Master Internal Deburring Tool (Standard)	9.50
K&M Master Internal Deburring Tool (PPC)	9.50
K&M Professional Internal Deburring Tool (Standard)	14.50
K&M Professional Internal Deburring Tool (PPC)	14.50
K&M (Markie) Primer Seater Tool (Deluxe)	39.95
K&M Primer Gauge w/dial indicator assembly	97.50
Dial Indicator Assembly to fit Deluxe Seater	65.00
Lee Shell Holder to fit K&M Seaters	3.25
(Each Primer Seater comes with small and Large Primer Holder)	

VISA MasterCard

Credit Card Orders Charged 4% Additional

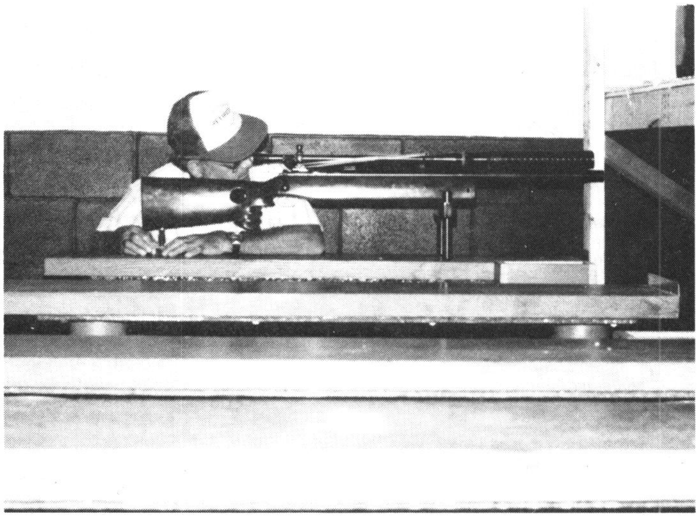
Please include payment with order. Include ample shipping, overpayments will be refunded. ADD $4.00 for COD orders. All orders will be shipped UPS. PA residents add 6% sales tax. Dealer price sheets available with signed copy of FFL. Prices subject to change without notice. Other products available. Write for complete price sheet to:

BRUNO SHOOTERS SUPPLY
10 - 5th St. Kelayres, Pa. 18231
(717) 455-2211
Voice & FAX #

Some of the bench shooting stalwarts at the Blairsville club: Rear (l to r) Mickey Matviya, Ernie Howard, Jim Fulmer, O.A. Cunkleman. Kneeling (l to r) Jack Harsh, somebody named Benyo, Bob Gabelli.

Jack Harsh (left), O.A. Cunkelman (center), and Mickey Matviya (right) burn some powder before a match. Note racks above benches where rifles are placed when not on the line.

Some of the guys hard at it before a match. Ernie Howard on the far bench, Jim Fulmer in the middle, and Bob Gabelli with the author's "green monster" nearest to camera.



Jim Fulmer and his bull barreled Winchester 52. Despite his position, Jim touches off each shot with his left hand. Note rubber band to keep the Supertargetspot in place.

PAC-NOR BARRELING

"Your Barreling People"

Pull buttoned, stress relieved and hand lapped chrome-moly and stainless rifle barrels

- Barrel Blanks
- Contoured Blanks
- Prefit Barrels

Most standard & hundreds of wildcat chamberings

For information write or call:

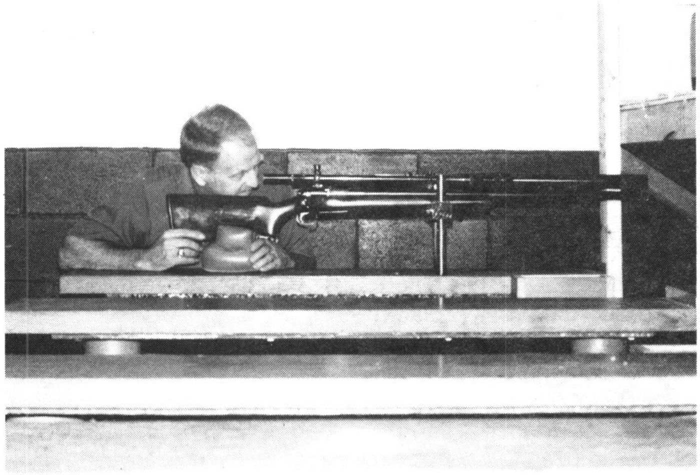
PAC-NOR BARRELING
99299 Overlook Rd. P.O. Box 6188
Brookings, Oregon 97415
Phone (503) 469-7330
FAX # (503) 469-7331

CLAY SPENCER

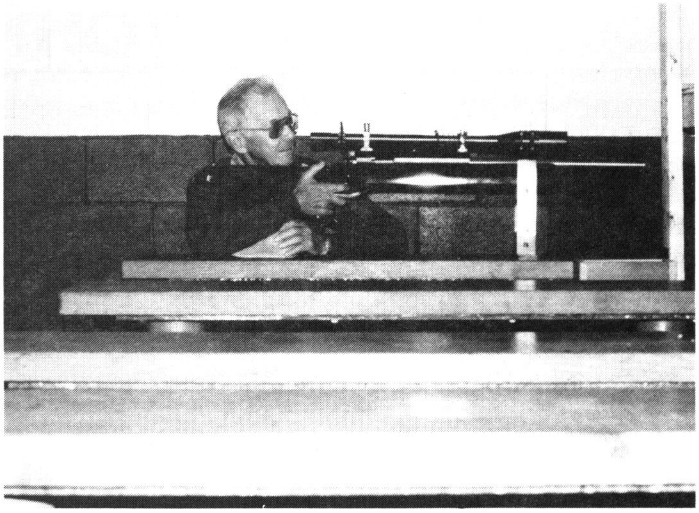
Benchrest Rifles
1,000-yard Rifles
Silhouette Pistols
Live Varmint Rifles
High Grade Hunting Rifles
Benchrest Handguns (as seen in *American Handgunner,* May/June 1990)

SPENCER'S CUSTOM GUNS

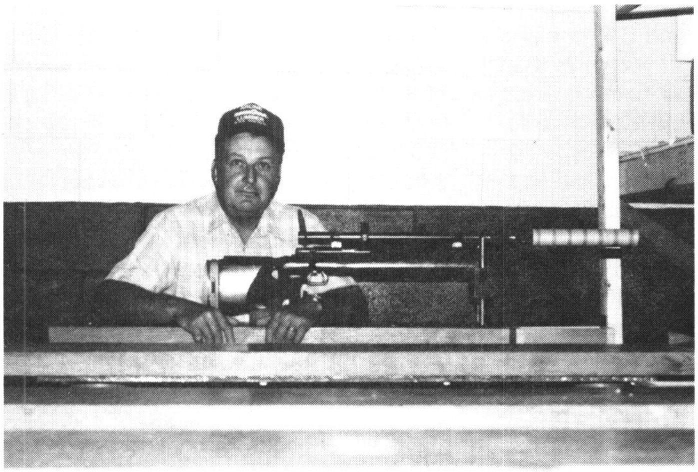
Home of the BC's 6.5 7mm 30
Rt. 1, Box 546, Scottsville, VA 24590
(804) 293-4922



O.A. Cunkelman and his fabulous factory 40-X. The author passed on an offer to buy this piece prior to Mr. Cunkelman's purchase. I don't pick lottery numbers well either!

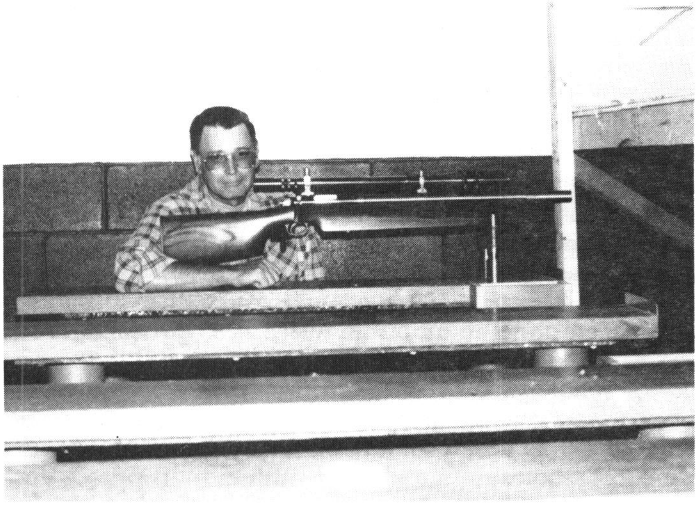


Mickey Matviya with the author's Hart/Shilen/Six 40-X.



Ernie Howard and his vintage Anschutz Supermatch. Note double set triggers. Ernie says this is a real one-holer. It puts one hole in the target every time you pull the trigger. He also shoots a Hart barreled 40-X gunsmithed by fellow shooter Dave Billingsley.

Record holder Bob Gabelli demonstrates his championship form. Bob's rig is a Hart barreled 40-X in a fiberglass stock by Hart Rifle Barrels. Note that he uses an internally adjusted Leupold 24X. Currently, Bob uses a "jack" screw, but has used a sandbag in the past.



Master machinist and die maker Jack Harsh and his Hart barreled MAUSER built by the late Frank Curatti. Earlier this year, Greg Statts used this rig to punch out an even .300″ agg for 12 shots. Smallest so far in 1991.

The New

Bald Eagle Rear Bag

30⁰⁰

(Plus Shipping)

BALD EAGLE PRECISION MACHINE CO.

101 Allison Street • Lock Haven, Pa. 17745
Phone: (717) 748-6772 / 2074
FAX: (717) 748-4443

BILL GEBHARDT
NRA Endowment Member
IBS Life Member / NBRSA Annual Member

JOHN ROSS

Dear Dave,

I've been reading your magazine off and on, usually whenever I drop by Art Freund's house, but this is the first letter I've ever written to you. I enjoy your various writers' attitudes of trying new approaches, so I thought I'd send off a few of my findings and thoughts that might have applications in your field.

While I *have* competed in benchrest matches here in St. Louis, my interests have been in enough different areas of the shooting sports that I have never had the time or the inclination to concentrate solely on BR competition. After reading some of Boyd Mace's stuff, I decided maybe my activities weren't so off-the-wall after all.

Since we don't have any prairie dog towns in my area, one long range game has been to shoot tennis-ball-size pieces of ditching dynamite painted day-glo orange. These are put out at random (and long — up to 1/2 mile) ranges and then shot at. It makes for a good spectator sport too.

Many of my wildcatting experiments have involved long range cartridges in calibers .375 and up, including variations on the .50 Browning case. This came about for 3 reasons: A) It was fun, B) not many people were doing it, and C) it made spotting shots easier during long range rock plinking when dynamite shooting was not possible. One you might like is a .375 on the .50 Sharps 3 1/4″ case. 142 grains H870 give 3435 fps to the 300 grain Sierra boattail out of a 30″ Hobaugh barrel on a Ruger #1 action. Accuracy is 2 1/2″ at 300 yards, which astonished the builder Art Freund. I haven't shot the gun for several years, but think it might like 7828 even better. Fouling was a problem with H870 over long strings. I got several groundhogs with it in the Pahsimeroi valley in Idaho in '78, including one at a little under 400 yards.

These kind of activities led to work with even larger calibers, up to a modern 4-Bore (1.000″ groove diameter) gun of 23 lbs. on a custom Farquharson action, completed in mid-April 1991. 460 grains of FG gives a 2400 grain conical bullet 1475 FPS. Recoil is about like playing rugby. I may need to make up reduced-capacity cases for smokeless loads; Secondary explosion effect scares me away from using anything less than a case full of smokeless, and the Powley computer says 450 grains of 4064 would give that 5 1/2-ounce slug over 2200 FPS! I'm afraid I might drop the gun, given those ballistics. I've built a standing benchrest, and will report how the big fellow does at long range when I get the loads optimized. I'm dying to enter it in Fred Sinclair's mail-in shoot-for-score match!

Aside from comic relief, there **is** a connection here to the experiments done by your average reader. Accurate bullets for these big bores are nonexistent and have to be made. Lathe turning out of solid gilding metal is often the best avenue. This is particularly true for high velocity rounds like the .50 BMG, both the standard and the improved versions. Tests done by Bruce McArthur in Michigan and Eric Williams here in St. Louis indicate that large improvements in the projectile's ballistic coefficient can be realized by making the tip needle-sharp. I believe Bruce got a B.C. of over 1.00 from the solid brass 750 grain TCCI boattail .50 caliber bullet merely by performing this surgery to the projectile's nose. In standard form the bullet has a small flat tip of about .080″ diameter and its B.C. as determined by both Bruce and Eric is in the .82-.84 range. Have any of you guys tried lathe-turned bullets in your hotrock .240s and 7mms? Does anyone out there have access to a good screw machine? Maybe this is an avenue worthy of pursuit in the VLD bullet area. You just can't get that needle-sharp point with a lead-cored bullet.

Another area I've never seen discussed is saboted slugs. I'm about to have Art rechamber a tired .30 caliber unrestricted barrel to .30-06 for one of my switch-barrel varmint rifles to see what the potential is of Remington's "Accelerator" round. I realize you'd expect a loss of accuracy, but has anyone ever found out just how much? 20%-30% might be tolerable if your gun was accurate enough to begin with. How about putting a plastic sabot on the 250 gr. Sierra .30 caliber and shooting it out of a match .50? Years ago I worked up loads for 300 grain bullets in the .50 (the Barnes flat point made for the .50-110 lever action 1886 Winchester). Maximum in the standard chamber proved to be 284 grains of H-4831 for 4410 FPS out of a 36″ barrel. Groups were 7″ at 100 as the copper-tubed Barnes is hardly a match bullet — I've seen the dies that make them. Think of that Sierra slug at 4400 FPS! If you want a lighter gun on a standard action, how about putting a sabot on a 6mm or 7mm VLD bullet and blasting it out of a match gun chambered for .378 or .416 Weatherby? Anybody out there doing precision injection molding who'd like to make up some sabots? Does anyone know what Remington's development work concluded as to optimum bore diameter for a given projectile? I.E., was the .224 saboted up to .30 because .30 gave best performance or because there was no market for a .224/7mm Express Remington?

Something else — really long barrels. I like the .223 for high-volume prairie dog shooting, but wanted more velocity. The now-defunct MATCO made me a 36″ blank that gave me 390 FPS more velocity than my 21.5″ .223 dog rifles with the same load. I still have a 36″ .243 blank and a 36″ .284 blank they made. Perhaps these will become a .240 Badger and 7mm STW, respectively.

Another item — bore wear. Machine gun shooting is a controversial topic but it can teach you a lot about barrel life. Full auto barrels "go bad" all at once just like BR barrels. Anyone out there know anything about a process called carbo-nitriding? An experience I witnessed leads me to believe that it may have merit for 1000-yard wildcats and other "overbore" cartridges.

A fellow at a recreational machine gun shoot had rebarreled his 1917A1 belt-fed Browning water cooled to 8x57 due to the availability of cheap surplus 8mm ammo. The rifling was ruined (bullets keyholing) in only 2000 rounds, which is *absolutely unheard of* in a water cooled gun. *Ten times* that amount is what you would expect as a minimum even when shooting nothing but entire-belt bursts. When we pressed the barrelmaker for details on the type of steel, he admitted he had used cold-rolled(!) The shooter had purchased two of these barrels, so he had the second, unfired one carbo-nitrided for about $60. This process gives a 70 Rockwell surface hardness to the metal, and changes the bore dimension only a few tenths. 10,000 rounds later *the barrel looked unfired,* and when left uncleaned for 3 days did not rust despite the fact that the mid-50's Egyptian ammo was corrosive.

Carbo-nitriding requires that the barrel be made of non-stainless steel and have never been fired. Art and I have built up some match AR-15s for prairie dog hunting that shoot .350″ groups, so I have started work on a test: I'm building 4 match AR-15 uppers with chrome-moly barrels from the same maker, and having two carbo-nitrided. I'll fire all 4 for group on the same match lower receiver with the same bolt and bolt carrier. This should indicate if the process causes a change in accuracy. Then I'll swap the uppers onto an M16 lower and put 500 rounds full auto through each one in full-clip bursts. After a thorough cleaning I'll test all 4 for group on the match AR-15 lower. Then 500 more full auto on each, clean and shoot for group, and so on until accuracy goes to hell. I'll let you know what the results are when I'm finished.

You may have been wondering where I go to shoot at chunks of dynamite and test machine guns. Several years ago I bought a bankrupt quarry for the very purpose of shooting whatever I wanted without bothering anyone. The Benchrest Rifle Club of St. Louis views my penchant for big cartridges with mild amusement, but they tolerate me as long as I fire one round at a time.

In addition to having rifles favorably surprise me with their accuracy, I'll leave you with two disasters that still have me puzzled.

In searching for a good cheap plinking bullet for the .50 BMG for under-500-yard shots, I located some tracer hulls that had not yet had the pyrotechnic compound installed. These hollow projectiles were a bit under 500 grains in weight and very uniform — about 1 grain variation. They were very concentric, and their wall thickness (about .080″) as measured on a case checker was also very uniform. Reasoning that they had to be filled with something, I stood them nose down in a loading block and used a veterinary syringe to fill them with epoxy. Further reasoning that such a projectile would require a faster twist than a solid metal bullet, I loaded them up and fired them out of my fastest-twist .50, in a single shot Freund-built action with a 1-10″ MATCO barrel in .50 Improved and a Leupold-Premier 18-40 scope. This 36-lb. gun shoots under 2″ at 300 with 750 grain boattails if the bore is kept clean. The epoxy-filled bullets shot very uniform groups of about 1 foot at 100 yards. I was so discouraged after five strings that I never fired another group with these slugs. I looked for evidence of understabilization, but everyone agreed that the holes in the paper were round, not oval. Anyone have any ideas on this one?

Another puzzler was my first attempt at a good 1000-yard rifle. Having purchased the final remaining supply of 139-grain Norma FMJ match bullets, I had Art build a 6.5-300. Wichita action, 12″ Davidson flat-bottom sleeve, 2oz. trigger, McMillan stock, 24x Leupold. Figuring barrel life would be short, art chambered two Hart 28″ blanks (both 1-9″ twist) so I'd be ready to go when one was shot out. Trying all printed match loads for this cartridge using H870, 5010, H570, and 4831, the 139 grain Norma was very consistent with 2″ groups at 100 yards with almost every load. Thinking it might shoot better (relatively speaking) at longer distances, I moved to 300 yards where I was rewarded with remarkably consistent 7″ groups. Switching to the 140 grain Sierra resulted in identical groups. Thinking maybe these bullets wanted an 8″ twist, I switched to 120 grain flatbase hunting bullets. Groups hung right in there at 2″-2 1/8″ at 100 and 7″-8″ at 300. Thinking I'd got a bad barrel, I swapped the original for the spare and repeated the entire process. Guess what? Identical results. Throughout this entire procedure I had checked guard screws and scope mount screws regularly and even changed to a second Leupold target scope in case that was the problem. No change. An observer commented that I was probably flinching due to such heavy recoil (this was a 17-lb. gun). I said "Let's find out" and picked up my 'glass-stocked 10-lb. .460 Weatherby with recrowned barrel and 3.5-10 Leupold. I shot a 5-shot group of .840″ at 100 with 127 grs. 4350 and 500 grain bullets. So much for flinching. To this day I have no idea what was wrong with that 6.5 and it languishes in the corner of the safe, waiting for a chance with a fresh barrel in a new caliber. Any suggestions?

Enough for now. I'll have more to report in a couple of months.

Best ever,
John Ross
34 No. Meramec Ave.,
6th Floor
St. Louis, Mo. 63105-3874
(314) 721-2254

P.S. What's the latest on good .25 caliber bullets? I've got a couple of 14-lb 25 Gibbs caliber rifles itching to shoot better groups.

HART

OLD-FASHIONED QUALITY . . .
THE "HART" OF OUR BUSINESS

BENCHREST GUN WORK . . . OUR SPECIALTY

- Hart Products
- Actions - 4 styles
- Custom Made Benchrest Bullets
- Action Chamber Cleaning Tubes
- Arbor Press
- Primer Depth Reamer
- Reloading Dies
- Action Cleaning Tube
- Benchrest Pedestals - Comp. or Varmint
- Neck Turning Tool
- Flash Hole Deburring Tool
- Primer Pocket Tool
- Primer Seater
- Barrel Bench Vise
- Barrel Wrench
- Hart 2 oz. Trigger
- Cotton Flannel Cleaning Patches
- Brass Core Wire Brushes, Rifle & Pistol

WE HANDLE BENCHREST SUPPLIES AND EQUIPMENT OF PROVEN QUALITY.

- Shooters Choice Products
- McMillan "Drop In" Stocks
- Sierra Bullets
- Remington Match Primers
- Federal Match Primers
- Federal Match Cases - cal. 222 and 308
- J. Dewey Ramrods
- Forster Products
- MTM Products
- Lyman Products
- L.E. Wilson Products
- Redding
- Leupold Scopes
- Hornady Bullets
- B & L Target Scopes - 24X, 36X, 6X24

HART VARMINT PEDESTAL — MODEL H-10
WAS $104.24 NOW $99.03

PROTECTOR OWL BAG #2
WAS $9.00 NOW $8.55

REDDING COMPETITION BR-30 POWDER MEASURE
WAS $86.34 NOW $82.03

REMINGTON T-SHIRTS ASSORTED COLORS
WAS $9.66 NOW $9.00

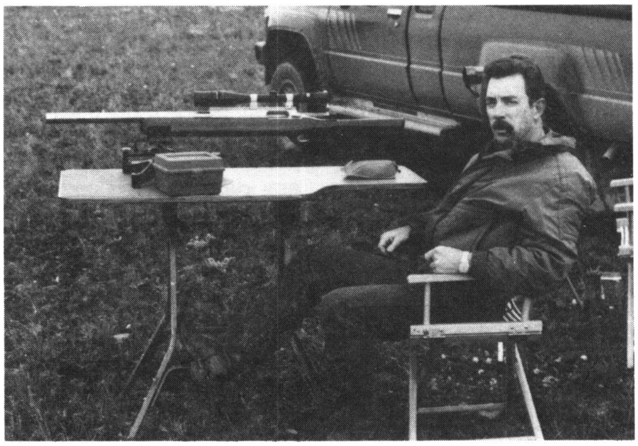
Offer ends Sept. 31, 1991 or until supply is exhausted

FREE CATALOG
Mailed catalog - send $1.25 for postage

Dealer Inquiries Welcome — Send certified copy of Federal Firearms License for dealer prices.

ROBERT W. HART and SON, INC.
401 MONTGOMERY ST.
NESCOPECK, PENNSYLVANIA 18635
(717) 752-3655

BOYD MACE



It is April 15. I am supposed to be in Idaho shooting rockchucks with Rich Kayser and Dan Lilja but Ma Nature had other plans. Friday, the day I was to leave, found twelve inches of snow on the ground and all roads leading west closed. All roads leading in other directions were also closed. I am good and truly snowed in. Things don't improve much until Sunday, too late for me to make the long drive to Idaho for our short hunt. Which is, as our beloved editor is fond of noting, one of the penalties of living in these God-forsaken parts of the West.

Today conditions were better and I took the opportunity to run out to the range and fireform 50 rounds of RWS brass for my 257 Improved. The city police were at the range qualifying and I had to wait until they finished before I could get down to shooting. They needed the practice anyway. Personally I don't regard two foot groups at 21 feet particularly accurate shooting but they seemed satisfied. They told me it was pretty good for rapid fire. Now I understand why they use those semiautomatics with oversize magazines. (Hold the nasty letters please, I am sure there are plenty of policemen who can shoot better than these guys).

After fireforming I tried a few groups using full bore loads. Five shot groups were running in the low threes and high twos using the 85 grain Noslers. A little more tinkering and better bullets should gain some improvement.

I finally got the .257 together a couple of weeks ago. Briefly it is a Remington 700 short action with a Davidson aluminum sleeve and ramp, a fluted Lilja barrel in heavy varmint taper measuring 28 inches, and a laminated maple thumbhole stock from Western Gunstocks. Scope mounts are Kelbly on Davidson bases. Dan Lilja did the smithing and Bruce Russell installed the stock with Liquid Steel bedding. I haven't weighed the rifle but guess it is about fourteen pounds.

The stock is still unfinished. I needed to do some shooting and opted to wait until a later date to finish it out. I am not entirely happy with this stock. The pistol grip is offset to the right somewhat. With my rifles that develop any recoil I prefer to snug them up to my shoulder and shoot them a little tight. This is to head off bruised muscles after a day in the prairie dog towns. This particular stock design with the offset pistol grip forces me to shoot it quite loose, as a snug grip will pull shots out of the group when the rifle recoils.

The scope at present is a 12X Leupold. There is a story behind the scope and at the risk of making myself sound stupid I will relate the details. The rifle was originally a 6MM. At the end of last season it wasn't shooting well so I decided the barrel was over the hill and sent the rifle up to Dan for the conversion to .257 Improved. The scope on the 6MM was a Lyman LWBR 25X with a multiple dot setup by Seibert. When the .257 was together the Lyman was bolted on top. The fireforming groups of the Winchester brass I was using at the time were not encouraging. Something like two to three inches.

Careful handloading produced more largish groups, like two to three inches. I took the gun home and tore it apart, finding nothing wrong. Next day I was back at the range. I tinkered with seating depth, different bullets, powders, you name it. Nothing worked. I had trouble keeping the scope focused too.

So, here I am sitting at the bench swearing softly. The cop sitting at the next bench overhears me even with his earmuffs on and comes over to offer advice. "Lousy shooting!" he offers. "How come your groups are in a different place on the target every time you refocus your scope?" Out of the mouth of babes, so to speak.

He has stumbled on to the source of my problem. I moved the focus ring back and forth and the crosshairs moved all over the target. Something is dreadfully wrong with this scope. I mumbled my thanks and left quickly.

The only other scope I had handy is the 36X on my PPC. Since it was only a few days before my Idaho hunt I bolted it on and rushed out to zero it in. It was a truly nasty day with 35MPH winds so I had no opportunity to try for accuracy. In the meantime I picked up a used Leupold 12X, intending to take it along for a backup.

To wrap this story up, since I was unable to go to Idaho I bolted on the 12X and took it out to the range today for testing after I finished fireforming the RWS brass. My fireforming groups were still not encouraging, running around an inch. The same cop was there, watching my groups through a spotting scope. This time he was audibly snickering. I made some rude comments about the two foot groups he was shooting with his service pistol and had to listen to the above tale about how he was pretty good at rapid fire.

Sometime during the last few rounds I accidentally discovered the 12X was suffering from severe parallax, about half inch of it. I was able to adjust it out finally. My fireforming done, I tried some of the full house loads using the Winchester brass.

VARNER'S — BULLET SEATING GUAGE (LANDS FINDER)
This bullet seating guage will let you set your bullet seating die and then transfer your die to the loading press. It will place the bullet to the lands of your rifle without using any measuring devices whatsoever. It does it all for you. This guage keeps track of any washout in the lands of your rifle.

List Price (includes one case *$19.50*
Extra Cases .... *$ 4.00/ea.*
Postage .... *$ 2.00*

100% Money-Back Guarantee
Patent 4,608,762
ROUTE 2, BOX 167-A
ANTWERP, OHIO 45813
PHONE (419) 258-8631

Featured in the American Rifleman Magazine, Oct. 1985.
If unavailable at your Dealer-Order direct from VARNER'S.

VARNER'S INFLATABLE SANDBAG
(Patent Pending)
$27.50 ...... Shipping $3.00
For the marksman who likes to get on the bull's eye quickly, with better comfort and better accuracy when shooting. Just squeeze the bulb while looking through your scope and bingo, you're on!

SPECIALISTS in GUN CLEANING SUPPLIES for ACCURACY
100% Cotton Flannel Patches • Brass Core/Bronze Bristle
Bore Brushes • Cleaning Rods • Spear Pointed Jags • Bore Guides
• Action Tools • Cleaning Solvents • Gun Oil
Complete Line of Accessories from .17 Cal. - .45 Cal. Rifle
Pro-Shot Products, P.O. Box 396, Taylorville, IL 62568
Phone (217) 824-9133 FAX (217) 824-8861
Send or call for free catalog. Dealer inquiries invited.

The first three went through the same hole with the last two enlarging the group to just over a quarter inch.

The cop came over. "Nice rifle, and that last group was pretty good. What did you do different?" "Changed powders" sez I. "Should have done that to begin with!", he retorts and goes back to shooting two foot groups with his service pistol at the 21 foot range. Goes to show how much people can learn from us PS expurts.

Anyway the .2578 Improved is shooting satisfactorily now with the 85 grain Nosler Ballistic Tips. We will see what happens with the new bullets from Fowler and Berger when they arrive. When I ordered the 257 Improved reamer from JGS I neglected to tell them to throat it for 85 grain bullets so my chamber has a longish throat. With the Noslers seated out to touch the bullets are only a minimum distance into the case. The long throat in effect adds powder capacity. A full case of IMR 4831 drives the Noslers at 3686 FPS average velocity with remarkable consistency. The primer pockets are staying tight and cases aren't showing pressure signs. I am using Federal 210M primers and 54 grains of IMR 4831. Both Sierra and Speer list charges of 4831 as high as 55.9 grains but I found velocities getting erratic using that charge.

I had a few of McCluskey's varmint quality 85 grain bullets on hand and tried them. They shoot marginally better than the Noslers but chronograph at 3589 FPS with the same charge of 4831, probably due to less bearing surface. Pressures look lower than with the Noslers. I haven't experimented with any other powders yet but have the feeling that 4350 might work with the new BR quality bullets as they should be very similar in dimensions to the McCluskey bullets.

The RWS 7X57 cases are from The Old Western Scrounger and are quite expensive. Cost me $103 per hundred. The quality is very good, primer pockets are flat and the flash holes have no burrs. Running them over my Merrill Martin calibrated nail I found only .001 variation in wall thickness measured half an inch from the rim. The brass is considerably harder than the Winchester brass.

Necking the 7X57 cases down to 257 was easy enough. The RWS cases have a rim that averages .005 larger than the Winchester brass but still fit my boltface with sufficient clearance. The 257 Roberts was originally a necked down version of the 7X57 case. Using the 7X57 cases as a base give plenty of thickness in the neck walls to allow neck turning to fit most chambers. I have also used 7X57 cases for reforming to 6MM Remington with good success.

If the weather continues to improve I am going to take a short trip this weekend to Kaycee, Wyoming to try the .257 on prairie dogs. My wife needs the practice with the spotting scope. The last time she went with me she got seasick watching the mirage float around. But that was last summer when it was hot. With the cooler weather we are experiencing this spring maybe I can get her broke in properly.

Late note: The day after I wrote this I was back at the range shooting the 257 again. The two enclosed targets are from that session. I was getting occasional fliers that couldn't be explained. Finally I noticed that the Leupold 12X has an extreme amount of parallax which was impossible to adjust out. That scope is now on its way back to the factory. Funny I never noticed it earlier.

Boyd Mace

RUSS HAYDON'S SHOOTERS' SUPPLY

815 S. 70th St. • Tacoma, WA 98408 • (206) 472-5507

Benchrest • Target • Varmint

WILSON

Case Trimmer less case holder	$24.25
Case Holder - specify cartridge	4.35
Deburring Tool, .17 to .45	6.55
Inside Neck Reamer (use with trimmer) - specify caliber	13.95
Straight Line Seater	29.50
Extra Top Assembly for seater - specify caliber	12.25
Neck Sizer Die less bushing	29.50
Bushing - specify size	7.25

SINCLAIR

Deluxe Flash Hole Deburring Tool	15.75
PPC Flash Hole Deburring Tool	15.75
Neck Turning Tool, dual caliber - .22 & 6mm, .25 & .270, or 7mm & 30	56.50
Mandrel, dual calibers as above	9.50
Mandrel, single .17, 6.5 or .338	8.50
Comparator - 6 cals .224, .243, .257, .277, .284, or .308	11.50
Scope Ring Lapping Kit, 1"	13.95
Chamber Plug - specify cartridge	8.95
Arbor Press	63.00
Cleaning Rod Guides - REM 700, WIN 70, or Ruger 77, .22-6.5 & .270 & up	11.95
"O" Ring Rod Guide (specify action and cartridge)	16.50
Power Primer Pocket Uniformer, carbide, small or large	13.50
Phase II Primer Pocket Uniformer small or large	18.50
Neck Expander Die	15.40
Cleaning Rod Case	7.75
Bracket (fstens two rod cases together)	6.00

DEWEY MFG.

Nylon coated Rods complete with jag & brush adapter. (Jag only with .17 as no adaper required.)

.17 x 26"	19.50
.17 x 36"	22.00
.22 x 36"	21.15
.22 x 44"	21.40
.270 & up x 36"	21.75
.270 & up x 44"	22.45

Deduct $2.25 for .17 rod without jag, $4.50 for all other rods without jag & adapter.

6mm Jag for .22 rod	2.35
.17 Brass Core Bronze Brush	$1.15 ea.

PRO-SHOT

100% Cotton Flannel Patches

3/4" square	17 & 22 caliber	$3.75/500
1-1/8" square	22 cal. centerfire	3.75/500
1-3/8" square	6mm centerfire	4.00/500
1-3/4" square	6mm thru 30 caliber	5.00/500
2" round	30 thru 38 caliber	5.50/500
2-1/4" square	38 thru 45 pistol	8.00/500

Brushes, brass core with bronze bristles - .22 RF, .22 CF, 6mm, .25, .264, 7mm, .30, .338, .375, & .45 rifle; and .22, .38 & .45 pistol	$1.10 ea., $9.25/dozen
Bore Mops, brass core - .22, .24/27, .30/35, .38 & .45	$1.00 ea., $9.00/dozen

TULLER/PROTEKTOR SAND BAGS

No. 1 front hunting rifle	8.95
No. 2 front, 2½" wide forearm	8.95
No. 3 front, 3" wide forearm	8.95
Front Squeeze Bag	7.95
Rear Bags - specify bunny or rabbit	
standard rear	13.50
thick base	15.50
custom heavy duty	24.95
Bolt Holster	4.50
Brick Bag for elbow comfort	9.00

WHITETAIL DESIGN

Carbide Cutter for Wilson Trimmer	29.00
Lifetime Primer Pocket Cleaner, large or small	12.00
Match Prep Primer Pocket Uniformer, carbide - small rifle/pistol or large rifle	22.00

DAVIDSON

REM 600, Short 700 or 722 Single Shot Adapter - specify with or without tip-up (.222, PPC size requires tip-up)	6.00
REM 700 or 721 Single Shot Adapter	6.00
REM 700, 721, 722 Bolt Shroud, aluminum	11.50
hard anodized, black	13.00
Bullet Puller, plier type (not for crimped-in bullets)	
.22 & 6mm	13.50
.22, 6mm & .308	14.50
Barrel Vise for switch barrel rifle	36.00
Loading Port Wrench for above Remington, Shilen and most Mausers; Hall or Stolle (call for avail.)	32.00
Mainspring Changing Tool	11.50

SOLVENTS & OILS

Accubore, 4 oz.	$ 5.95
Hoppes Bench Rest, 4 oz.	5.50
Hoppes Bench Rest, 16 oz.	14.75
Pro-Shot Copper Solvent, 4 oz.	5.50
Pro-Shot Copper Solvent, 16 oz.	16.00
Shooters Choice, 2 oz., hand dropper bottle	3.10
Shooters Choice, 4 oz.	4.25
Shooters Choice, 16 oz.	14.95
Shooters Choice Gun Grease	2.95
Sweets 7.62, 8 oz.	6.50
JB Bore Cleaner	3.95

WOLFF GUN SPRINGS - 2 types

Replacement springs for weakened spring, provide approx. 15% extra power. Recommend gunsmith replacement.

Anschutz 54/1400 series (wing safety)	7.20
Remington 37	7.20
Remington 540 & 580 series	7.20
Winchester 52, all series	7.20

Blitzschnell precision speedlock, ready for installation.

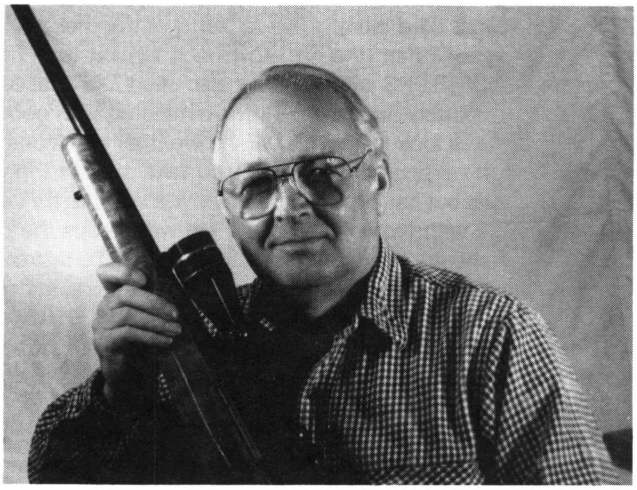
Anschutz 1800/1900 - 2 spring	8.95
Hall benchrest	7.20
Remington 700 short, 722	7.20
Remington 600-XP100	7.20
Winchester 70, all series & cal. except .22 Hornet	7.20

BENCHREST ITEMS

Acra-Gel	9.25
Acra-Gel with aluminum filler	12.50
Micro-Bed	8.00
Bushnell Rings with windage	12.95
Chapman Screwdriver Kit	22.95
Loctite	6.50
K&M Flash Hole Uniformer, standard or PPC	9.50
Lee Auto-Prime, 2 trays	13.75
Shell Holder for Lee Auto-Prime - specify cart.	2.75
Redding 3BR Powder Measure	67.50
Redding BR-30 Powder Measure	79.50
Shilen 2 oz. Trigger	94.95
Mirage Shade, mylar	2.95
7BR REM cases, bulk	6.20/20
6 PPC Sako USA	11.00/20
Federal 205M, 210M	$21.50/1000
Remington 7½	$18.95/1000
5.00 UPS surcharge on primer shipment	
Imperial Sizing Wax	2.95
Lee Hand Press	24.95

Please send payment with order. Include ample shipping; overpayment will be refunded. All orders shipped UPS. Washington residents add 7.8% sales tax. Prices subject to change without notice. Limited number of used items available. SASE for complete price list.

BOB JOURDAN



Dear Bob,

Greetings from another .250 Ackley Improved fan. I very much enjoyed your March 1991 article in P.S.

My problem is I've been wanting to put together a rifle for about 3 years but, only one week ago did I finally acquire my desired platform; a Savage 112V in 22-250 (NIB; I got lucky). I just ordered a reamer from JGS today and will send everything to Rocky Mountain to fit a heavy, 26″, cut rifled, 1-10″ barrel. At least that's my plan today.

This is my first venture into anything beyond an over-the-counter factory rifle. Naturally I'm proceeding cautiously. Now with benchrest quality 25 caliber bullets seeming closer to reality I'm hesitating. I want my long awaited "dream rifle" to be right the first time.

The point is, I need your guidance. I know some of the questions; twist, throat length, cut or buttoned, gunsmith, etc. but, not all of the questions.

Would you please share with me your 250 Ackley experience keeping in mind that I am an amateur at the custom gun game. Also, anything else that is relevant. I realize this request is a loaded one but, like I said, I don't know what all the questions are.

Kent R. Miller
9881 Loralinda Drive
Cincinnati, Ohio 45251

COOK 65's ARE BACK!

. . . and They're Just As Good As Ever*

In the late '70's and early '80's Jim Cook's Flat Base 65's were widely believed to be the premiere 6mm bullets on the market.

Now, these legendary bullets are again available, manufactured on Jim Cook's equipment, and to his demanding specifications.

There are many fine bullets, but we sincerely believe these are the best. See for yourself -- order some today. (You won't have to wait - we ship from inventory!)

6mm - 65 gr. - flat base - hollow point
100 - $11.50 1000 (bulk) - $105.00
Shipping charges added.

COOK BULLETS
1846 Rosemeade Parkway, #188
Carrollton, Texas 75007
(214) 394-8725

*** many shooters agree they could not be *better***

May 7, 1991

Kent Miller
9881 Loralinda Drive
Cincinnati, Ohio 45251

Kent,

Good to hear from a reader of Precision Shooting, especially about building a .250 Ackley Improved rifle. I have just finished testing the new benchrest quality .25 caliber bullets from Jef Fowler and passed on a report to him, plus doing a brief article for PS on the same. Since articles take time to get printed, I have no idea when it will come out. But for your information, the bullets are just what we expected — excellent! I tested the 85 grain Fowlers and Jef tells me he will have the 115 gr. very low drag (VLD) bullets ready in the fall.

So you have picked out a Savage M112V rifle to convert to the .250 Ackley. I have shot the Savage M110LH rifles more than any other since they were announced back in about 1955. They were, at least until the recent Savage Arms Company problems, the most accurate of all the regular commercial U.S. made rifles. I only hope they continue under the new management, but the first signs don't look too good. Decisions they are making do not seem to be those of rifle people, but appear to be from the accounting and advertising departments.

While I really like the M110, I do not use it for custom building because of two points: (1) I do not know of a custom trigger that will fit the Savage action; (2) The barrel is restricted to small diameter at the chamber if the excellent headspacing barrel nut is used.

To get around these problems, the Savage trigger can be adjusted fairly well, and would perhaps be passable for certain types of shooting. It can not be brought down to light pull as demanded by serious varminters and Hunter Category benchrest competitors.

The fitting of the barrel can be changed by doing away with the barrel locking nut and setting the barrel up just like a Remington by butting the barrel shoulder up to the face of the action. By doing this, you can install a heavy barrel.

Kent, you didn't say just what you plan to use the rifle for. If you plan to do serious accuracy shooting, certain things must be considered. On the other hand, if you are going to use it as an all-around rifle to include targets, varmints, deer and possibly elk, another system should be used.

First, the accuracy requirements. The work should be done by a shop that specializes in benchrest rifle work, or at least fully understands what is to be done and why. They really do not charge any more than do regular hunting type gun shops, so should be used. Several accuracy gunsmiths advertise in PS, including Clay Spencer who is building a .25BR for Jef Fowler at this time.

Jef and I have discussed what is needed for an accurate .25, and we agree that if it is strictly a target rifle it should have a 14″ twist to handle the benchrest 85 gr. bullets. Several excellent barrel makers produce winning benchrest quality stainless barrels. Lilja, Hart, Schneider and Broughton, to name a few.

Another important accuracy item is the stock. It should be some form of fiberglass to avoid warping and ever-changing fit. The McMillan stocks are excellent. He produces some that have their color molded in to avoid the very nagging problem of the painted stocks that chip too much. Also, pillar bedding the stock seems to be the best way to go if you do not glue the action in. I really do not like a glued in action for a usable rifle because you can not take the stock off to do any kind of work.

Continuing along the total accuracy theme, the action must be accurized in some way. Most common actions are not true when they come from the factory. Most locking lugs do not seat and the action face is not square with the barrel threads, among other things. This is little thought of by the average gunshop, so is one of the reasons to use an accuracy gunsmith.

For the rifle that will be an all-around useful rifle, I still would want to start with the best barrel and an accurized action. The cheapest barrel I will use is the Douglas premium grade air gaged stainless target model. Usually I go with a Hart because it is not too much more expensive than the Douglas. Also, I have learned that heavier barrels are much more accurate than lightweight sporters. I prefer a 24″-26″ length with a muzzle diameter of .70″. This is the Douglas #5, heavy sporter. All companies cut barrels to the Douglas specs. If the rifle is to be more varmint-target, I would use the next heavier #6, called the light target, with a muzzle diameter of .75″.

The twist for an all-around .25 caliber rifle should be 12″. This will handle varmint bullets very well, but will also handle the 100 gr. and usually even the 120 gr. big game bullets. If the rifle is to be used a great deal for big game then it should have a 10″ twist.

Since you have already got the chambering reamer, the amount of throat is set. Do not allow the barrel to be freebored, as this really kills the accuracy. Most reamers do not cut a long freebore, unless specified on the order.

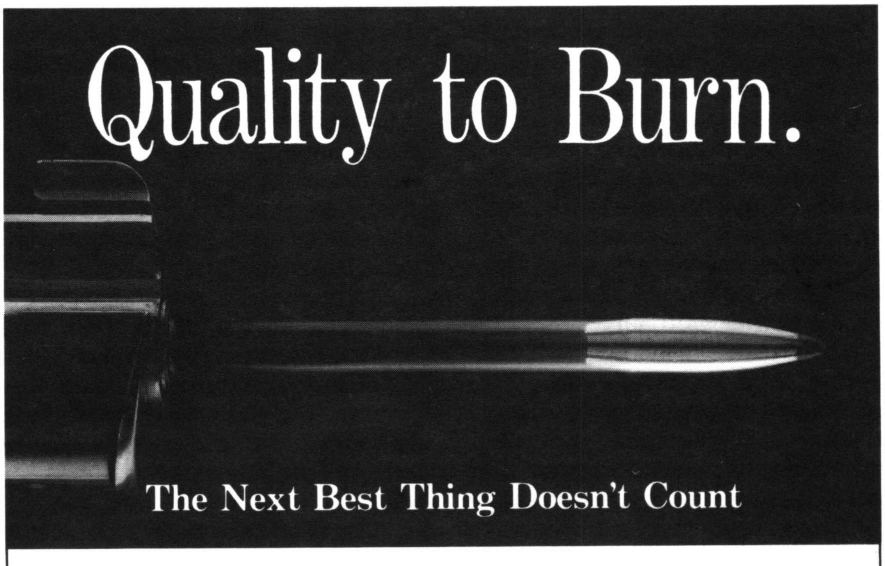
Now for some problems we have all seen in the .25s. Bullets. Bullets. And more on bullets. No company makes a proper .25 caliber bullet. I am of course talking about accuracy. Any .25 that will shoot the regular .25 caliber bullets into 1″ groups at 100 yards is far above average. I set my Hunter Category rifle up for accuracy, but to also be used on big game. Therefore, I used a 10″ twist and the regular Remington trigger. The results were not good. After 60 targets, using every brand of bullet, plus 7 different powders, the rifle averaged .96″ at 100 yards. This is not competitive for targets, and is really marginal for varmints. It would be a good big game rifle. Since most of us shoot more targets than big game, my .250 went into the closet. Then came the Fowler 85 gr. benchrest bullets. With 28 groups shot, the average dropped down to .611″, or about a 35% immediate improvement. The rifle now qualifies as an excellent big game rifle and a very good varmint rifle. With some searching, I may even find a load that will make it competitive for targets. The Fowler bullets shot 10 of the 28 groups into .4″ or less, with the best being .213″. For comparison, the best Sierra bullet according to the folks at Sierra, is the 90 gr. HPBT. Six groups with it from my .250 averaged 1.303″. Ten groups shot with the Speer 87 gr. averaged .937″. Surprisingly, the Speer 120 gr. averaged only .718″, but it was erratic like all other factory bullets.

This all tells me that to enjoy a .25 one must have benchrest quality bullets. Here at our range I see many sad shooters trying to make their .25s shoot as good as someone's .243 or 6mm. They just don't know that the trouble is in the bullet, and not the shooter. The 6mm bullets are better made, for reasons unknown to me.

Kent, I hope this doesn't confuse you too much. I think the little .250 Ackley is by far the most interesting of the .25s. It can be mild enough to really enjoy, but it can be mean enough to down a big bull elk in the fall. The loading is simple, as it seems to shoot about anything, powderwise. The cartridge fits in the short actions, which I like. The cost to shoot is lower than other .25s due to less powder giving the same results. On last fall's hunting trip to Wyoming I took two rifles: my heavy hitting 6.5x06 Ackley, and the little .250 Ackley. Got a buck with each. The only reason I don't make my .250 my primary big game rifle is that it is set up as a Hunter Category target rifle that can be used for hunting. This only means that the stock is somewhat wide at the forearm, being 2.25″. Not exactly the nicest thing to carry around... But for stand hunting, or carrying short distances, it is sure alright. And besides all that, I like it's fire truck red, McMillan stock! So does everyone else....

Have fun.

Bob Jourdan
385 Fenway Place
Bartlesville, OK 74006
Ph. 918-333-5276



AMERICA'S AUTHORITY ON POWDER FOR 3 GENERATIONS
RIFLE • PISTOL • SHOTGUN
For over 3 generations the Hodgdon family has produced quality propellants for demanding, discriminating shooters. With strict quality controls and continuous testing, Hodgdon continues to produce powder the shooter can trust to deliver ***reliable, accurate*** results. For a FREE basic reloading manual write to:
HODGDON POWDER CO. INC.
P.O. Box 2932, Dept. PS, Shawnee Mission, KS 66201

VARMINTING: CHUCKS, DOGS & JACKRABBITS

by

Bob Jourdan

The 4″x12″ varmint-target was alert to my presence even though a quarter-mile away. He was resting in a clump of cacti in the shade at the base of a stunted mesquite tree far across the rocky, arid draw in Western Texas. My featherweight .243 was loaded with 75 gr. Sierras backed with 45 grs. of H380. The big Weatherby 2-3/4x10 scope drew in the target nicely. At that range the hold-over would be about 18″ and the light westerly wind would drift the bullet about 8″. As I mentally calculated the variables I drew up the tension on the sling and took a sitting position the same as used for antelope or deer hunting in the western states. A long pause, the blast and recoil and the bullet was on its way. It would take over half a second to reach the wily varmint. Would he move? Maybe duck down into the cover? Or perhaps step out to get a better look at his adversary?

The instant answer was the death leap straight up two feet in the air, a kicking fall into the dry caliche dust, and it was over for the forage grazing varmint. The rancher's beef herd would get an extra bit of grass and McDonalds would be able to provide the public another hamburger.

But I'm getting ahead of myself. Let's backtrack for some insight and background on varmint hunting and compare three major varmints that are hunted by two methods as different as Jane Doe is from Jill Doe . . . both good . . . but different.

Varmint hunters have a number of creatures available for the taking. All are considered to be detrimental to farmers and ranchers and are often hunted by tax payer subsidized professionals known as government trappers or control officers. The various varmints are frequently accused of passing deadly diseases to livestock or domestic house pets and are in some cases guilty of reducing populations of desirable wildlife such as quail, turkeys, ducks, deer and antelope fawns and more.

Varmints are about equally divided in their diets between the grazing group, taking in grasses and farm crops, and the carnivorous that take mice, rabbits, quail, deer fawns and nearly any other meaty meal they can catch or steal. A few varmints devour either or both vegetation and meat in any form.

A benchrest is where you find it . . . Or, make do with what you've got.

Probably the most publicized varmints are the woodchucks of the East, a close relative of the rockchucks of the West. The target is a fat bundle of fur that mows down vegetation like a John Deere hay swather. A big one can weigh up to 15-20 pounds and presents a stationary killing target of about 6″x12″. This means that a chuck hunting rifleman must be able to keep his shots in a 6″ bullseye regardless of the range. If he is capable of consistent 2 minute of angle (MOA) shooting under field conditions he should hit virtually every chuck out to perhaps 300 yards.

Since Western rockchucks are only slightly smaller, the target is about the same and the hitting range is the same. We will consider all the varieties of chucks the same whether they go by the name woodchuck, rockchuck, marmot, groundhog or other local names. They are all in the rodent family.

Most all chucks are taken as stationary targets by hunters shooting from rests. The rests vary from a vehicle window or hood to very stable portable shooting benches. Fences make good rests, too, be they rock or rail or just vertical posts. The whole idea is to use the best rest available to assure an accurate hold on the chuck.

Chuck rifles and cartridges are frequently of the target types. Commercial varmint weight rifles mix in with many custom target rifles including a few benchrest models. The most common calibers are the .22s from the .222 Remington through the .22-250, followed by the 6mms in .243 Winchester and 6mm Remington. Many wildcatters prowl the fields with their latest creations, but even they tend to stay with the .22 or 6mm in different dress. And of course all rifles wear scopes of high power. The small cartridges require 8X-10X scopes, but the majority of shooters opt for much higher power such as the B&L 6x24 and the Leupold 6.5x20 variables. Some even use the straight benchrest scopes up to 36X. All these are easily used since the chucks are not moving, usually standing feeding or lying on their dirt mounds resting and sunning.

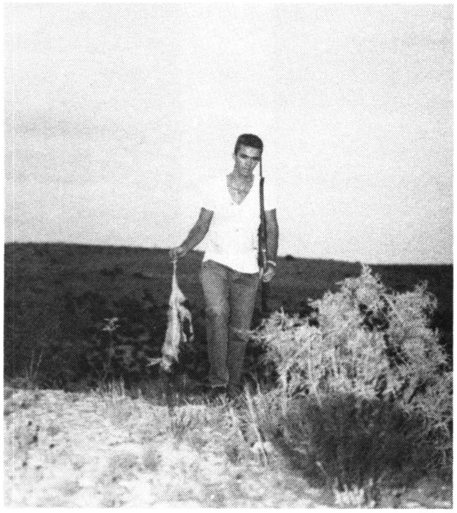
The next most popular varmint is the prairie dog of the West. He is much smaller than either variety of chuck, averaging about 3″x9″ for a sure kill target. Thus a rifleman must be able to put his shots in a 3″ bullseye, again regardless of range. If under field conditions he is capable of 2 MOA accuracy he can depend on kills only out to about 150 yards. From this it is easy to see why prairie doggers can't get by with 2 MOA shooting. A 1 MOA shooter will make kills out to 300 yards and since most doggers want at least this, they are beginning to utilize full-blown benchrest rifles and techniques. They generally demand 1/2 MOA equipment or better, and the really serious shooters are looking for 1/4 MOA.

The prairie doggers use the same methods as the chuck shooters, but since the targets are smaller and the range generally longer they put more priority on extreme accuracy. On average they shoot the more powerful .22s and 6mms, with good sprinklings of .25s to .28s showing up. And also like the chuck shooters, many wildcat cartridges are used. Since most of my prairie dog shooting has been in conjunction with big game hunting, I have used the larger calibers from the .243 Winchester up through the .270 Winchester, mostly, and with scopes up to only 10X. Needless to say, my range on prairie dogs has been limited to less than 300 yards or so. This year, however, I plan to surprise a few with a new, full blown varmint rig including a 24X scope...

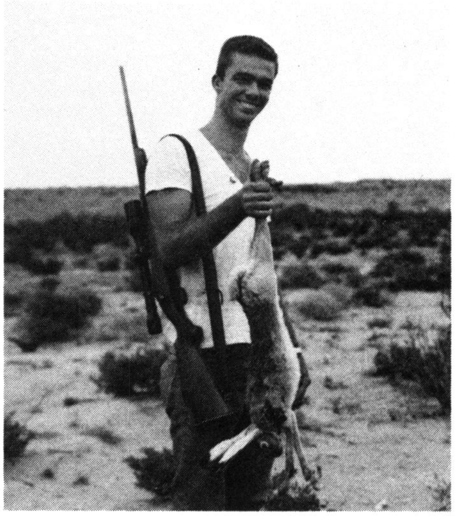
The third most hunted of the varmints is the galloping Southwestern jackrabbit. This type of varminting is as different from chuck and prairie dog shooting as day is from night. A big jackrabbit will show a target of about 4″x12″ for sure kills. The rifleman here must keep his shots in a 4″ bullseye and a 2 MOA shooter can take them out to 200 yards. They, like the prairie doggers, expect more so they want to stay under 1-1/2 MOA for 300 yard kills. Almost all jackrabbit shooters get by very well with near 1 MOA shooting. Even without benchrest equipment or technique a good jackrabbit varminter will make the best of the chuck-prairie doggers look very bad indeed on a jackrabbit range. The reason is all in the attitude of those conniving, devilish, bull jackrabbits. They just don't believe in sitting still. Maybe its the hot Southwestern sun . . . or the distance they must cover from one patch of grass to another. I've heard tales of these jacks carrying lunches to survive on while running to their next grass-patch dinner . . .

A jackrabbit is much more intelligent in his own way than either the chuck or the prairie dog. The burrow dwellers will duck into their hole for safety, but will reappear before too long as though nothing was wrong. I have had prairie dogs duck into their burrows three or four times in perhaps 20 minutes, always reappearing to be shot at again . . . Maybe they knew of my ability . . . or the limits of my equipment. In any case, a jackrabbit varminter almost never gets a second shot at a standing target. As a youngster the jackrabbit will run instinctively when shot at for the first time. Occasionally he will slow down or even stop to stand up high and look around to see what was after him. But if he is shot at again and missed, he is off for new country. He will never again doubt what is after him when he hears a rifle report or a bullet whiz by. He also directly relates the problem to a pickup truck or a human from the first day he sees them. Early in life he is taught to hide wherever he is if suddenly approached by a predator or hunter. In these cases he simply lays back his long ears and blends in to whatever concealment there is. If this fails, he feels secure in the knowledge that he can outrun the enemy if he has to. And run he can! I have clocked them down the center of country roads at 35 mph, but the most amazing thing from a hunter's point of view is how they have the ability to make seemingly 90° turns at full speed. Its almost like they know a bullet is on the way and they can dodge it . . . and they do . . .

Continued on next page



F. R. Mitchell bringing back the bacon . . . Or is it really a bull jackrabbit?



F. R. Mitchell with another long range kill.

BOB PEASE ACCURACY

P.O. Box 310787-S -oOo- (AC 512) 625-1342
NEW BRAUNFELS, TEXAS 78131-0787

BENCHREST EQUIPMENT & SUPPLIES

Ball bearing handle K&M Super rods
Bob Pease Accuracy practice targets
BoreScope by Siebert - see leade
B-Square rifle Rests & Arbors
Cauterucio GTB Benchrest Bullets
Controlled Depth Tapered Reamer
Corbin Cleaners, Laps and Lubes
Davidson Vise, Ramps & Shrouds
Devcon Bedding Kits & Hex Bolts
Hart Rifle Rest & Cotton Patches
Jones PA Dies, Bushings & DeCap Tool
K&M Microadjustable Turning Tool
Kleinendorst Expandiron & Bolt Tools
Marquart Precision Neck Turning Tool
Redding Benchrest Micrometer Measure
Shilen 1-3 lb. & 2-6 ounce Triggers
Shooter's Choice Cleaner & Grease
Sinclair Rod Guides and Clean Kit
Tuller Sandbags & NEW High Bunny Ear
Whitetail Pocket Reamer & Head Cutter
Wilson Seater, Sizer, Gages & Trimmer

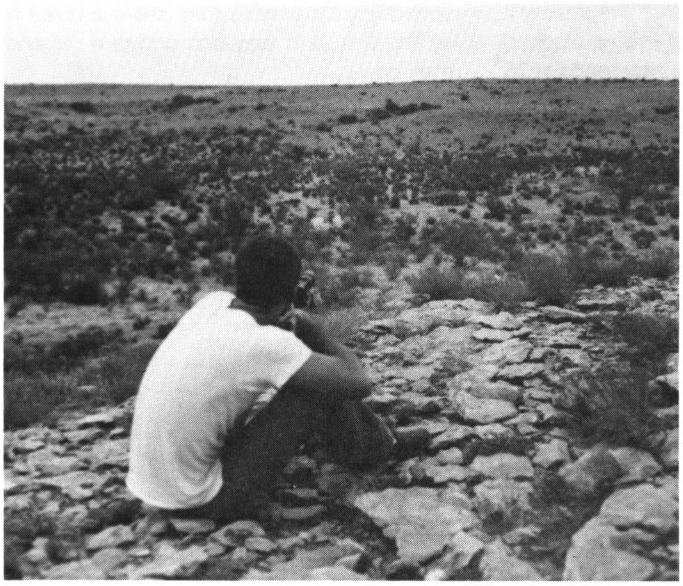
NEW
BPA Volume IV
Data & trends
Add this one to
your set

NO
Overseas
Foreign Orders
Just U.S. 50
states & Canada

The Bob Pease Collections; spiral bound booklets on accuracy.
Vol. I $6.00 Vol. II $6.00 Vol. III $6.00 Vol. IV $6.00 + $1 ea. postg.
(all four for $27.00 prepaid FIRST CLASS MAIL)

Send $1.00 for 16 pages of brochure, prices, news & updates.

MON - TUE - FRI - SAT AFTERNOONS BEST TO PHONE



Shooting under real field conditions at jackrabbits running across the canyon. Yes, you do miss more than you hit.

Varmint hunters comparing jackrabbits, cacti and rocks . . .

One of the tricks a crafty jackrabbit loves to pull on a hunter that has spotted him is to jump into any patch of low cover and do a reverse on his belly, crawling back in another direction 20 or 30 yards, then burst out at full speed heading over the near hill or around the point, out of sight and out of danger.

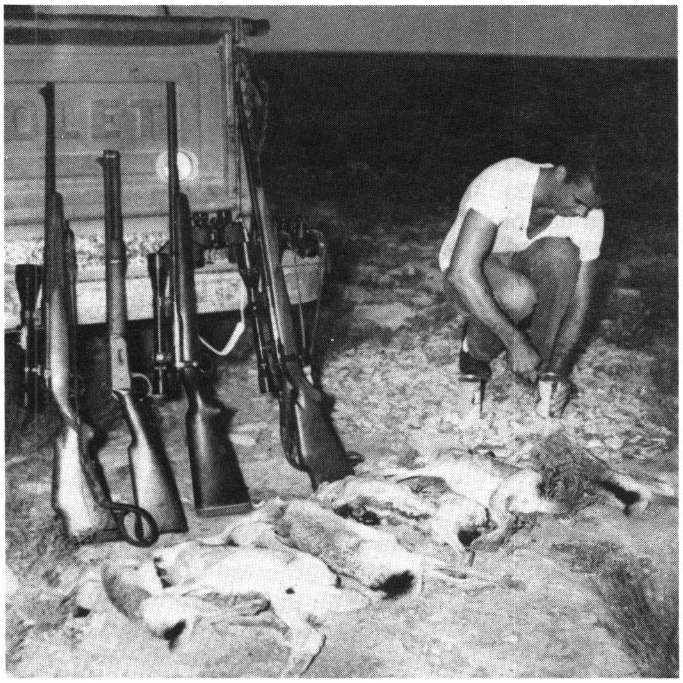
In West Texas we always contended that we helped breed high speed and craftiness into the jackrabbits in our area by killing off all those that were slow of foot, too curious, or just plain dumb. We were left with only the thoroughbreds to shoot at. With time, the only sitting targets we had were the newcomers that occasionally drifted in, or the hidden jackrabbits we might spot with binoculars 200 or more yards away lying low in the brush staring back at us. And this sort of stationary shot at a big jackrabbit is the one I described at the beginning of this piece.

By now you probably have caught on to the difference between the hunting of chucks or prairie dogs and that of hunting jackrabbits. The jackrabbit has been called the great training varmint of the big game hunters who are skilled at taking game on the run. Fully 75% of jackrabbit shooting is done at fleeing animals as they duck and dodge through the low mesquite and brush of the desert Southwest. The hunting is done by driving to a likely looking area and then getting out and walking along a rim or hillside while watching for the spooked jackrabbits to break out of their concealment in the brushy bottoms. This makes for quick shooting with lightweight, handy rifles. By the time the hunter is down in a solid sitting position and has his rifle sling on, the wise old jackrabbit is halfway to the top of the next rise and vanishing fast. The shots will range from 75 to 300 yards, with plenty offered beyond that. The rifles used should be very flat shooting and the scopes must afford enough field of view to allow the hunter to pick up the scurrying rabbit without delay. And of course, a single shot rifle is almost out of the question.

And speaking of quick shooting . . .

T.G. Birdwell, F.R. Mitchell and I were driving up to a divide between two dry draws on a sunny, hot summer day in search of a few good jackrabbits. Just as we reached the top, three big jacks tore out of the bottom heading for a new world. They were leaving dust trails 10 feet behind them as they galloped up the hillside. I jammed the brakes, threw open the door and bailed out. We all three ran to the front of the truck to form a skirmish line, just like in an old John Wayne movie. By the time I scrambled to a sitting position I had the rifle sling on, the lever worked and the rifle up. The first jackrabbit filled the bright field of the Leupold scope at not much over 150 yards. As the crosshair broke out slightly ahead of the scampering varmint, I touched off a mean little 100 gr. .284 bullet that rolled the jackrabbit up so quick the second rabbit almost ran over him. In the recoil motion I worked in the next cartridge and there the number two rabbit was, full in the sight picture. At the crack of the spiteful .284 he piled up in a real dust storm, rolling end over end. I threw in cartridge number three just as I saw the third jackrabbit veer off to the left. I tracked him briefly as he headed straight away, set the crosshair square on his black tail and gently pressed the trigger. The big jack exploded in mid-air. It was over almost before it started. I glanced over at T.G. and F.R. and caught a glimpse of both with their mouths open and blank stares looking out across the draw. I tried to put on the very calm and cool act, but they had hunted with me enough to know they had just witnessed my first, last and only triple kill. Of course, I called it skill . . . they called it luck . . .

The rifles and cartridges I have used on West Texas jackrabbits number at least a dozen, starting with the .22 rimfire. With the .222 I made a memorable shot on a jackrabbit running straight down the opposite hill at me. He was probably running from a predator in the other valley. I had to lead him down hill past his nose, and when the 50 gr. Sierra hit him he just kept right on heading down the steep hill, very much dead. My old .30-30 Winchester M94 with a Williams peep sight was also a varmint gun, but not any too successful. That rig with 150 gr. flat point bullets wasn't much to hit with, but the few times I did make a hit the jack sure knew about it. My longest hit with the .30-30 was less than 100 yards . . . but it was fun. The .300 Savage I used on loan a time or two wasn't much for varminting. I don't remember hitting any rabbits with it. The Savage companion cartridge, the .250, was a different story. In a Model 99 Savage it was pretty good out to about 200 yards, but either wasn't accurate enough or did not have enough scope at 2-1/2X to really shine. It was great out to 150 yards, and in hindsight I know it would have been topnotch in a tight bolt action target model with a high power scope. The .30-06 was good, too, but I couldn't enjoy the recoil enough to have it become habit forming. The 125 gr. bullets sent off at 3100 fps flattened several



Four rifles, six jackrabbits, but only one cold drink to go!

A Great White Hunter takes a Great Bull Jack rabbit.

jackrabbits for me, but there were other calibers that were more enjoyable . . .

The most devastating cartridge I used was the .257 Weatherby Magnum. When the little 75 gr. bullet ahead of 72 grs. of H4831 left the muzzle at near 3800 fps, any jackrabbit hit simply turned to red mist. But in the end, I gave it up for lighter recoil, too.

Finally, I guess I settled on the .243 Winchester as the best varmint-big game combination caliber, even though I used the .270 about as much. I still have the .270 in semi-retirement after something like 15,000 rounds have gone through it. The original .243 burned out and got traded off years ago for a .284 Winchester M88 that took a few dozen jackrabbits over the years. The best .243 I ever had, and still have, is one by Ranger Arms out of Texas. The company went under in a hurry, but the rifles were quite nice. That rifle has now been rechambered to a .243 Ackley and is still capable of 3/4″ groups most of the time. And that is at velocities over 4000 fps. The barrel may not last much longer . . .

While on an early day jackrabbit hunt I saw my first .25-06, about 1960. It was, of course, a wildcat at that time and I was impressed. The owner shot at jackrabbits at a quarter-mile, at a time when I considered 200 yards to be too far. Every time he ejected a fired case the primer would fall out. When he offered it and his handloads to me to fire, I respectfully declined . . .

Jackrabbits have a peculiar population cycle. An area that has only a few in some given year will have rather large increases in population with each succeeding year. By the fourth or fifth year the area will be an excellent varminting ground. Any hunter will get 75 to 100 shots in a brief afternoon hunt. The area will continue growing until the seventh year when suddenly the numbers drop by easily 50%, and the next year it will be difficult to find enough jackrabbits to justify carrying more than 20 cartridges for a hunt. Then the cycle starts over. Since game biologists really don't study life cycles of jackrabbits we never knew what caused the seven year plan: diseases, over-crowding, starvation, migration, predators or just what.

There are other varmints and other hunting methods, but the chucks, prairie dogs and jackrabbits are kings. Much of the country has coyote and fox hunting available with bobcats and ringtail cats occasionally showing up. Some varmint hunters sit in blinds and call varmints with mouth-blown calls or electronic calls, and some drive the back roads in their shiny new 4x4 pickups in hope of getting a shot or two at whatever varmint might present itself. These varminters make up a small minority compared to the big-time chuckers and doggers, but their enjoyment is just as great.

Varminting is the most available kind of hunting there is. It is done by sedentary shooters using benchrests and taking stationary targets with heavy, accurate target rifles and powerful scopes. It is also done by putting in lots of leg work, walking the desert hills and draws and using kneeling or sitting shooting styles. In these cases lightweight hunting rifles and low to medium power scopes are used. It can be done in the rolling farm lands or the majestic rocky mountains or the sun-baked desert. Varminting is available to everyone. Enjoy it while you can.

OP-TEC
Building Custom Made
Long Distance Viewing Systems

- *Binoculars*
- *Range Finders*
- *Telescopes*
- *Tripods & Acc.*

JERRY PHILLIPS
P.O. Box L632 • Langhorne, PA 19047 • (215) 757-5037

LONG RANGE HUNTING

I would like to contribute a thought or two on the subject of long range (1000 yard) hunting.

Although I am not a barrel maker or a gunsmith, and although I am only a Master in highpower competition (since 1966), and although I have only shot in one benchrest match (Johnstown, 1964) in my life, I have a lifelong interest in accurate rifles and shooting, and have been a life member of IBS since its inception in the 60's. I am the designer of several deservedly obscure cartridges and a researcher into the history of others less deservedly obscure. I shot my first 1000 yard match in 1961, and have continued to shoot sporadically at that range since then, with varying results.

However, what I have to say is based less on experience than on the cold hard evidence of the ballistic tables supplied by my PC and my Sierra Ballistics Program.

Placing the emphasis on the size of a group one is able to shoot at long range is missing the point. Even if it were possible to shoot one hole groups at 1000 yards, other, more important factors come into play at this range.

1. Unlike the situation on the bench rest range or the target range, the shooter in the hunting field is forced to estimate the distance to his target. Using ordinary range finders, such as those commonly sold for use in hunting, errors of 10% or more are not uncommon. More accurate range finders are quite large and expensive, and seldom available. Deer are not uniformly sized animals, and a large deer will look closer, a small deer further away than it actually is.

   At short range, this presents far less of a problem, since the first few hundred yards of the bullet's hyperbolic trajectory results in comparatively little drop, and an error of 10% represents only 25 yards at 250 yards, resulting in a minimal (2″ to 3″) error in bullet drop estimation. At long range, at the other end of the hyperbola, it is an entirely different story, and a 25 yard error, although it represents only 2.5% of the total range, can be disastrous.

   At 1000 yards, the ballistically superior Sierra 200 grain boat tail soft point .30 caliber bullet fired at a MV of 3000 fps drops 10.68″ in the last 25 yards of its trajectory, and a total of 20.58″ in the last 50, or about two inches every five yards. Assuming a point of aim on a deer's shoulder, a 2.5% error in range estimation could result in a deer missed completely or shot in the foreleg and seriously wounded.

   Even boosting the MV to 3500 results in a drop of 7.42″ from 975 to 1000 yards, and 14.30″ from 950 to 1000 yards, or almost an inch and a half of drop for every five yards. Beyond 1000 yards the drop would be greater.

2. 1000 yard target and benchrest shooters have the benefit of sighter shots to confirm their judgement of wind conditions. There is a great difference in shooting at 1000 yards over a sun baked rifle range with heavy mirage running and flags stationed strategically the length of the field, and shooting across a canyon on a cold fall morning, with no flags and no mirage.

   Just as important as the ability to estimate wind velocity correctly is the ability to determine wind direction. The theoretical 200 grain Sierra at 3000 fps MV drifts 32.08″ in a 5mph cross wind at 1000 yards, and 22.74″ in a quartering wind at the same range. Even worse, a 5mph wind fishtailing from 10:30 to 1:30, or from 4:30 to 7:30 has a potential variation of over 45″, and nothing is more difficult to judge than such a wind, especially without the benefit of mirage and flags.

   Boosting the velocity to 3500 reduces the drift to 25.39″ and 18.00″ respectively, and results in a spread of 36.00″ between the extremes of a fishtailing 5mph wind. For the benefit of the uninitiated, a 5 mph wind can hardly be felt on the face, and conditions at three, six and eight hundred yards may be entirely different from those at the firing point.

3. Another factor which must be considered is time of flight. At 3000 fps MV, the 200 grain Sierra takes 1.36 seconds to traverse 1000 yards. At 3500 fps it still takes 1.15 seconds. Either of those times is plenty for the animal aimed at to move, and one step can be the difference between a clean kill and a badly wounded animal.

4. Still another factor is bullet expansion. A bullet jacket strong enough to withstand acceleration to 3000-3500 fps and the centrifugal force generated by its spin, will be a questionable performer at the terminal velocity of 1610-1965 fps. Use of a bullet specifically designed for hunting expansion, such as the 200 grain Nosler partition bullet, with its less favorable ballistic characteristics, increases the drop by 25 inches at 3500 fps MV and by almost 40 inches at 3000 fps MV, with commensurate increase in the possibility of misplacing a shot due to an error in range estimation.

   Truly ballistically superior bullets like the Sierra 220 and 250 grain .308 caliber Match Kings are not designed for nor intended for hunting use.

5. Unlike a crow or a prairie dog, whose vital areas take up most of their body space, a deer or other big game animal, like a ground hog, can be seriously wounded and escape to die a lingering death by a hit in any of a number of nonvital areas over a large part of its body.

   Failure to hit in the heart lung area, in the neck, or in the head, frequently means wounded and lost game, and wounded game, left to die in misery and pain, is the sportsman's nightmare and grist for the mills of the anti-hunting crowd.

   Wounding a potentially dangerous animal like a bear is, of course, another matter altogether. Such an animal, if allowed to escape, would be a possible menace to any unsuspecting person who happened to cross its path.

   At long range, it would also be impossible to distinguish a sow from a boar, or to see whether cubs were present or not, so the potential for orphaned cubs, who are dependent on their mother for protection and nourishment much longer than the offspring of any ungulate, is proportionately greater.

6. Another factor with long range hunting is that of target identification. The danger of mistaking a horse or a cow, or even a human being for a game animal is proportionately greater with the increase in range. Aside from the moral considerations of placing at risk the life of an innocent victim, the exposure to civil and criminal penalties can be substantial.

   As an Assistant United States Attorney, I recently prosecuted for aggravated assault a defendant who had trespassed on a military reservation and entered an area reserved for bow hunting, where the deer were practically tame.

   Walking along a fire brake at dusk, he saw movement in the underbrush and shot at what he later claimed to have clearly identified as a buck, but which turned out to be a bow hunter.

   The defendant was apparently able to see well enough to aim, because he hit the hunter in the forehead with his .30-30, the bullet ranging downward and emerging through the hunter's cheek and lodging in his shoulder. This misidentification took place at a range of 30 yards.

The bow hunter survived, but with the loss of his right eye and his senses of smell and taste, no thanks to the defendant, who ran away from the scene, leaving the victim helpless and bleeding, until his cries attracted two other bow hunters, who located him and went for help.

The jury found the defendant guilty, based on a statute defining aggravated assault as the infliction of serious bodily injury by an action "manifesting extreme indifference to the value of human life."

The victim's medical expenses totally exhausted the defendant's liability insurance and made heavy inroads into the victim's one time accidental injury coverage, leaving him virtually unprotected in case of another major injury.

A number of states have similar "reckless endangerment" statutes, which would apply to anyone killing or injuring another hunter while attempting to shoot game at a distance greater than that at which his target could be identified with absolute certainty.

Far less serious, but still important, is the question of complying with game laws by identifying a game animal by sex at such a range.

7. Finally, for every shooter who reads about "long range hunting" and is capable of the refined shooting skills needed to carry it out, there are 999,999 others who are not remotely qualified to do so, but the mere fact of being unqualified will not deter them in the least from buying the equipment they read about and shooting up the countryside at ranges far beyond their capabilities.

I have killed around eighty head of African plains game at ranges from 100 to 800 yards. Conditions, such as tall grass and undergrowth, dictated that these shots were usually made from a standing position, using whatever rest I could find to take advantage of. Most of the shots were made with my Model 70 .300 H&H, and only on two occasions did I have to follow up a wounded animal. Each time it made me sick to see a wonderful creature have to suffer as a result of a misplaced shot.

One was a fringe-eared oryx, a notoriously watchful and cautious animal about the size of an elk, and a denizen of the treeless plains. I was able to take a shot from the prone position at 300 yards, quartering to the right. I aimed at the lower ribs, intending to break the off shoulder after transversing the heart and lung area. He charged off, apparently unhit, at the shot.

My guide, who had been watching through binoculars, looked at me. "He took a step just as you fired."

As we later determined, after a three mile chase in the hunting car and a follow-up shot, the bullet had entered the right hip and transversed the abdomen, exiting on the off side just below the ribs, approximately a foot to the left of where I was aiming. At that range, the bullet would have taken less than a half second to arrive, but that was all it took to make the difference between a quick kill and a wound which would have been eventually, but not immediately, fatal.

The other was a Thompson's gazelle, or Tommy. Accustomed to the deer sized impala and Grant's and Peter's gazelles, I had been consistently overestimating the range on the much smaller Tommies, but this time I underestimated, and virtually eviscerated this unlucky one. I followed him on foot almost a mile before bringing him down with a second, better placed, shot. In timber, a deer or elk wounded either way would have surely been lost if shot at long range.

I seriously question whether shooting game animals at extreme long range is really hunting. In the situations I have seen described, either because of the factors I have mentioned above the shooter cannot be sure of his shot, and is irresponsible for attempting it, or, if the assertions of the proponents of such shooting are accepted at face value, he **is** sure of it, and is doing no more than assassinating an animal which has no hint of being threatened, let alone the means of protecting itself.

As was pointed out in a recent article, Col. Whelen drew a distinction between game hunting and game shooting, and that distinction seems particularly appropriate here.

I seem to recall that in the early days of the accuracy game there was a organization called The Puget Sound Snipers Congress, whose interest in accurate rifles was centered around finding the means to shoot seals (or perhaps sea lions) at long range off the rocks where they congregate on the Washington coast. Perhaps the term "sniping" would be more appropriate for long range shooting of game animals.

I urge both present and prospective practitioners of this "sport" to reconsider what they are doing or planning to do.

Sincerely,
William T. Warren, III
6708 Cool Springs Road
Thompsons Station, Tennessee 37179
(615) 790-0509

K & P GUN CO.
"Dedicated to Accurate Firearms"
K&P RIFLE BARRELS
Ken Johnson
Barrelmaker

•Stainless Steel, Chrome Molly Rifle & Pistol Barrels
•Available in all calibers from 17 to 50
•Cut Rifling Match Grade Only
•Tailored to meet your needs

You can specify:
•Bore Diameter •Groove Diameters
•Groove Width •Number of Grooves •Twist

Write or call for information and price list.

1024 Central Ave. • New Rockford, ND 58356
701-947-2248

Congratulations Mitchell R. Maxberry

1000 YARDS

We are proud Mitchell chose our barrel to win the 1000 yard Leech Cup at Camp Perry. He then used our barrels in five out of the six matches involved to become the National Long Range Champion and set a new National Record of
1435-65X

KRIEGER BARRELS, INC.
18697 W. Clinton Drive • Germantown, WI 53022

THE RCBS PARTNER RELOADING PRESS — TOUGHER THAN IT LOOKS!

by Karl Bosselmann

In 1986, engineer Steve Koch of RCBS-Blount, Inc., Oroville, California, began designing what was to become the economically priced Partner press. From idea conception to marketing the time requirement was only eleven months — product release was April 1st, 1987.

The O-type frame, a time-proven design for rigidity, is of aircraft-type aluminum alloy; the press complete weighs only 3 lbs., 13 ozs., has a priming arm assembly similar to the RCBS Reloader-5, and possesses a compound leverage system. Providing a lot of power with reduced user effort, the Partner has a distinctly fine feature — it allows the very beneficial and often times necessary "feel" factor as it is surprisingly sensitive during reloading operations, a quality I find very important and conspicuously missing with the big muscle presses. When it is mounted on the new RCBS Accessory Base Plate-2, it makes an excellent portable tool.

It's unfortunate that many shooters and reloaders consider this press adequate only for handgun rounds and small to medium rifle calibers as such is definitely not the case.

In mid-1988 I purchased two Partner presses and switched over to them for almost all of my reloading work; this included heavy duty resizing and some case forming for big bore wildcats as well as special custom loads for a few Express calibers for Africa. To date, I believe the only thing I haven't done on these presses is bullet swaging (which shouldn't be attempted on these anyway!). Their service records have been extremely admirable.

USE AS OF MAY, 1991, ON MY SECOND RCBS PARTNER RELOADING PRESS.

- RELOADS, including full-length case resizing:

QUANTITY	CALIBER
1010	.30-06 Springfield
727	.338 Winchester magnum
482	.348 Winchester *
240	.375 Holland & Holland magnum *
386	.416 Taylor *
151	.416 Hoffman
96	.416 Rigby
369	.45-70 Government *
720	.458 Winchester magnum *
1758	.458 M.C.W. Express wildcat (similar to the .450 Ackley magnum wildcat).
199	.460 Weatherby magnum
100	.500/.465 Nitro-Express

- CASE RESIZING (full length) ONLY:

1100	7mm Remington magnum
155	.300 Winchester magnum
454	.308 Norma magnum

- PULLED BULLETS from loaded ammunition:

40	.338-caliber, 300-grain Power-Points
111	.348-caliber, 250-grain Silvertips
60	.375-caliber, 300-grain Silvertips
349	.458-caliber, 85 400-gr. RNSP 244 500-gr. RN-FMJ

* - cases additionally trimmed in press by using a file-type trim die.

- CASE FORMING:

QUANTITY	CALIBER
120	.240 Weatherby magnum neck-expanded to .416" (for a new wildcat caliber experimentation).
130	.348 Winchester neck-expanded to .416" (for .416"x.348 Improved chamber).
160	.375 H&H mag. neck-expanded to .416" (for .416 Hoffman chamber).
400	.375 H&H mag. neck-expanded to .458" (for .458 M.C.W. Express chamber).
220	.458 Winchester mag. necked down to .416" (for .416 Taylor chamber).
54	.450 Ackley mag. full-length sized down to .450 Watts (bottlenecked cases measuring .500" at shoulder to a straight taper case measuring .480" at neck). **
60	.458 Winchester mag. full-length sized down to factory specs after being fired in the .458 M.C.W. Express chamber (an expanded case measuring .506" at neck reduced to a straight taper of .481" at neck and static base measurements of .513"). **

** - very hard on press!

THE BOB PEASE COLLECTIONS,
are spiral bound booklets on accuracy rifle shooting. Written expressly to help guide you on bedding, accurizing, case preparation, neck turning, rifle preparation, scoping, loading and shooting techniques for rifle accuracy. All four volumes are fully indexed and provided with Tables of Content. Vol. I, Vol. II, Vol. III and the NEWEST ONE Volume IV are $6.00 each plus $1 first class postage per volume. ALL FOUR booklets are total $27 prepaid. Bob Pease Accuracy, POB 310787, New Braunfels, TX 78131-0787.

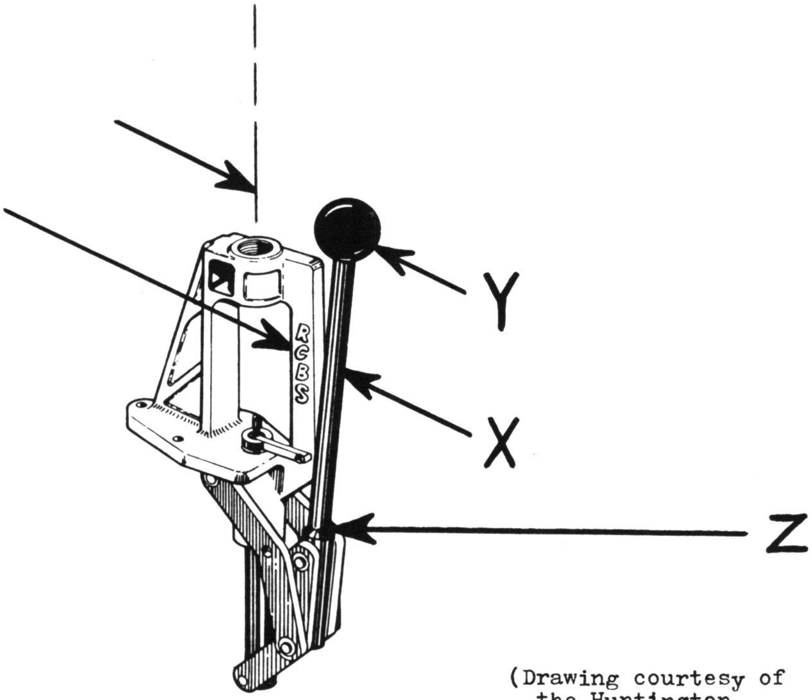
I kept a log on my second Partner press, and, as of May, 1991, the following work has been accomplished:

I have never dismantled this, nor the first press, for cleaning. Lubrication has been regular (the ram, ram pin, and link pins) solely with high viscosity Hoppe's Lubricating Oil. There have been no parts breakages nor parts deformations.

Until marketing of the Partner Reloading Press, I'd used RCBS Jr./Reloader Specials for most everything, but due to the excellent service of the Partners, I've switched over to them, especially when it does some jobs even better. Presently I own five of these Partner presses since I continually travel, thus I am assured of at least one being able to be pre-shipped to a destination, or one at least within fairly quick access at any given time.

Without reservation for the vast majority of reloading duties, I definitely recommend this moderately priced, excellently designed unit for newcomers as well as for experienced reloaders.

Karl Bosselmann
P.O. Box 900
Tombstone, Arizona 85638



(Drawing courtesy of the Huntington catalog, 1990).

X - For an increase in leverage toward the bottom end of the ram stroke, simply squeeze the front of the press frame and handle together........

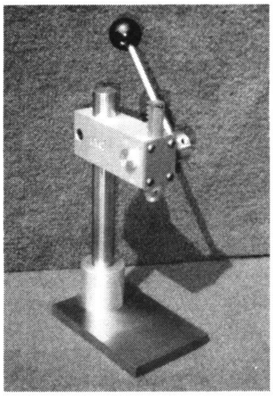
Y - or, for even more leverage, apply pressure further upward at the handle ball/seated reloading die area.

Z - During use, monitor the handle to make certain it stays tightly screwed into place.

R.F. Mitchell Bullets
Premium Match Grade
- 6mm, 10 Ogive with sufficient bearing surface for excellent stability during tough conditions.
- avail. in 66 gr. & 68 gr. F.B.
- **R.F. Mitchell** bullets are handcrafted in carbide dies by Simonson, using only the finest jackets, lead cores, and lubricants. Stringent quality control standards are maintained.
- $11.00 per box of 100
- $10.50 per 100 in bulk packs of 1,000
- telephone orders are accepted
- shipping costs invoiced

R.F. Mitchell Bullets
430 Walnut Street
Westernport, Md. 21562
301-359-0638

FERGUSON
VERSA-PRESS
Quality workmanship you came to know and appreciate in the past.



Features
Hard bronze bearings
Precision ground base
Stainless steel handles
Hardened, ground and pollished column
$149.95 + shipping

Look for future advertisements for
- New Products
- Tools from the Past
- *Rail Gun Systems*

FERGUSON TOOL & INSTRUMENT CO.
R.F.D. #1, BOX 114
HILLSBORO, N.H. 03244
603-529-7368

McCLUSKEY PRECISION RIFLES

• ACCURACY RIFLESMITHING •
• CUSTOM RAIL MACHINE RESTS •
• CUSTOM CASE FORMING DIES •

R.E. McCLUSKEY
102½ NW 36TH STREET
SEATTLE, WA 98107
206-632-6579

Mike McGee
— Custom Painting
— Candy Apple Colors
— Rainbow Colors
— Metal Flake

Discounts to Gunsmiths

Mike McGee
Rt. 35 P.O. Box 342
Corriganville, Md. 21524
301-777-5193
Eve. 301-777-3758

QUALITY BULLETS MAKE A DIFFERENCE

John J. Gammuto

Benchrest shooters rely on hand swaged projectiles to work their magic on paper targets. Very few top their cartridges off with factory projectiles. In fact, I only know one competitor that consistently shoots a factory bullet in registered matches, and he shoots the high quality Sierra .22 caliber match variety.

Fellow shooters sometimes mischaracterize Eric Sinclair as a cheapskate, or as someone only casually interested in the game. Others, more correctly, see him as an individual less concerned with plaques and statuary, and in it more for the pleasure of shooting. Whichever is true, and it may be a combination of all of the above, knowing Eric, I can understand where he is coming from. The hype and hoopla surrounding formal bench competition can get to you, if you let it.

Eric is the son of Fred Sinclair. Like his father, he walks in the footsteps of no other. One of his closest friends, George Fetcher, impressively shoots a straight up and down 7mm Remington BR. Unlike Eric, George uses custom bullets. To my knowledge he is the only competitor using a 7mm bore rifle in benchrest competition. Some day he's going to put a good aggregate score together and drive the new breed of .25 caliber enthusiasts nuts, including myself. But until that time... sorry boys no more free press! Get to work.

The accuracy clan by nature is a very competitive lot. Moss does not grow on their shoulders. They diligently examine the merits of all theories, gadgets, and claims.

One of this year's biggest attention grabbers at the Super Shoot had to do with bullets and bore diameter. The .25 caliber surfaced and held the attention of more than a few competitors. Bill Brawand and Clay Spencer both did what they could to leave their mark in the history books. Although I believe that Homer Culver was the first to enter this tournament sporting a .257″ diameter projectile, these two fellas indeed left their mark. Bill shot very respectable groups, but experienced some mechanical problems that left him out in the cold. Clay Spencer's name was on the lips of many as they speculated on whether or not he could hold things together long enough to capture one of the coveted championship titles. Needless to say, both Bill and Clay had my attention all week. I promised them both that I would do a full feature article on their equipment and results. With any luck, it should be complete in time for the August issue.

No matter what caliber you choose to shoot, one of the most important things to consider is whether or no your bullets are of sufficient quality to get the job done. The errors of the shooter, the rifle, and the ammunition are cumulative.

Experience tells us that quality bullets do make a difference when shot through mechanically correct equipment. To illustrate this point, estimate what size groups you think the average shooter could put together, at 100 yards, using average quality factory bullets. Draw that diameter on a piece of paper. Next, locate a half dozen or so dots, equally spaced, on the circumference of the circle (as in Figure A). These dots represent the extreme limits of your hypothetical group. Now draw similar diame-

THE BEST OF PRECISION SHOOTING

VOLUME TWO

March 1986 - March, 1987

Now available — 160 pages

Price is $8.50, plus $3.00 shipping and handling.
(Foreign postage is $6.00 Surface Delivery, and $14.00 Air Mail)

Make checks payable to Precision Shooting

You may order from: John Hollister, R.D. #2,
Box 2395, Whitehall, New York 12887-9539.

Also available from these sources: R.W. Hart & Son, Inc.,
Bruno Shooters Supply, Sinclair International, Inc.,
Custom Products and Precision Reloading

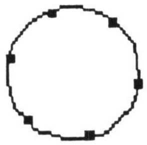


FIGURE A

HYPOTHETICAL GROUP
OF AVERAGE SHOOTER
WITH GOOD BULLETS.

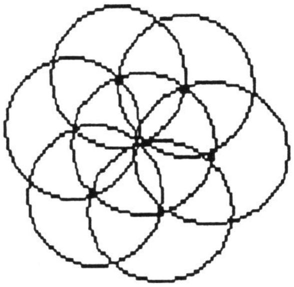


FIGURE B

EXPANSION OF FIGURE A
WITH SUB-STANDARD
BULLETS.

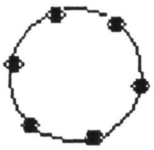


FIGURE C

EXPANSION OF FIG. A
WITH HIGH QUALITY
BULLETS.

FIGURE D

ACCURACY POTENTIAL OF
QUALITY BULLETS WITH
CORRECT EQUIPMENT.

ter circles around each of these points. This graphic (Figure B) represents a more realistic view of the average shooter's anticipated result using less than desirable projectiles.

Custom bullets, as proven in benchrest competition, are capable of 1/8 minute groups and less these days, but the norm is still in the neighborhood of 1/4″ in moderate conditions. Now, I'd like you to repeat the above procedure, but this time draw small circles around each dot, from an 1/8″ to a 1/4″ (Figure C). Now compare the overall size of each diagram. Diagram "B" is an example of how large a shooter's group could measure if he were using average factory bullets. The third diagram "C" is an expansion of group "A" using quality bullets. It is easy to see how even a novice could realize a 100% improvement factor using a superior quality projectile. Figure "D" represents the potential center to center group of a veteran bench shooter with state-of-the-art equipment and match quality ammunition.

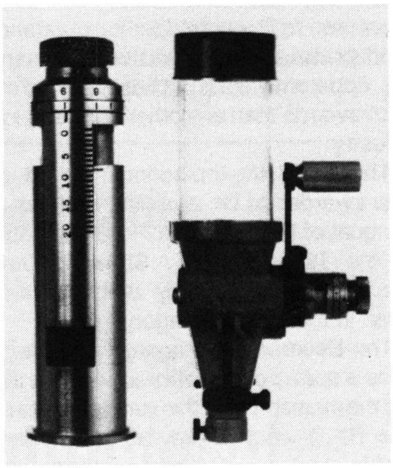
Competitive shooters know the difference between factory and custom made bullets. This simple group of illustrations should make things a little clearer for you.

Try some custom bullets. With quality equipment, you'll see they make a difference.

John J. Gammuto

The New

MCRW/Lyman Powder Measure



$\$179^{95}$ + shipping

MATERIAL — Industrial Hard Chromed C-1018 Carbon Steel, Insert Body, Moving Slide, and Knob.

STAINLESS STEEL — Lead Screw, Springs, Fasteners, and Ball Detent.

BEARING BRONZE — Lead Screw Nut and Bushing.

FEATURES —
Mod #1 One Click approximately 2/10 Gr. H-322 Powder
Mod #2 One Click approximately 1/10 Gr. H-322 Powder

PILL BOTTLE ADAPTERS AND CLEAR DROP TUBES AVAILABLE

MCRW Associates

RR #1 Box 1425
Sweet Valley, PA 18656

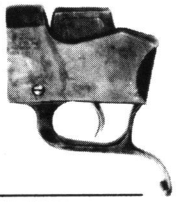
Call —
717-864-3967 for Information
or to Order
717-864-2669 Fax Line

BOB WAECHTER, Owner
Member — IBS, NBRSA, N.R.A.
and A.T.A. Life

COLOR CASEHARDENED HOCH ACTIONS ARE NOW AVAILABLE!

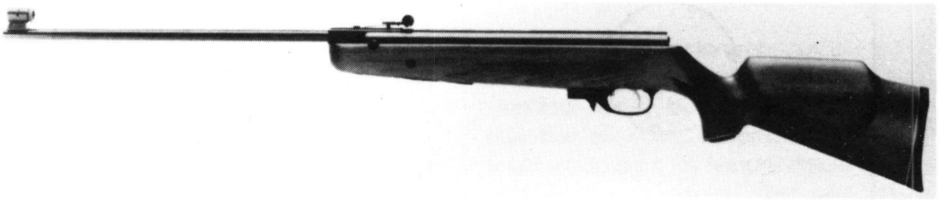
Designed for cast bullet target shooting, the **Hoch** action features a fast lock time and an excellent adjustable trigger. Price is **$499. Ballard, Hepburn, Model 44, 44½** parts, accessories and kits still available. *Catalog $1.*

S.D. MEACHAM TOOL & HARDWARE CO. INC.
1070 Angel Ridge Road, Peck, ID 83545 (208) 486-7171



BEEMAN WINS TOP AIRGUN PRODUCT HONORS

John J. Gammuto



Beeman RX.

The 1991 Airgun Product Award of Merit was recently presented to Beeman Precision Arms, Inc. for its role in the development of the Beeman RX Magnum Air Rifle with the "Invisible Mainspring." Awarded by the American Firearms Industry in conjunction with the National Association of Federally Licensed Firearms Dealers on the basis of dealer votes, this is the fifth such award presented to Beeman: four for outstanding product development and one for marketing. Apparently Beeman has received more such awards than any other company in the industry.

The award, the top honor in the industry, was awarded to Dr. and Mrs. Beeman at a banquet of the American Firearms Industry at the 1991 S.H.O.T. Show in Dallas, Texas. It was the only S.H.O.T. award given in the airgun category.

The Beeman RX Magnum Air Rifle features a sealed chamber of air which is actually the mainspring of this very accurate rifle. The RX is cocked like any other barrel-cocking spring piston airgun but the single cocking action compresses a cylinder of air rather than compressing a steel mainspring. When the trigger is pulled, the compressed air expands and drives the piston forward. Unlike a pneumatic or CO gun, the sealed air is not released up the barrel and the "gas-spring" cannot take a "set" or fatigue with time.

The single most attractive feature about the RX Model is that when maximum power is not really needed significantly lower powers will repay the shooter with less cocking force, less discharge sound, and greater pellet stability. Once set to a specific power level, the gas-spring system is absolutely consistent, instead of varying with the speed and force of pneumatic pumping. Only one cocking stroke per shot is needed.

The Beeman RX was designed with a highly efficient barrel-cocking mechanism, avoiding limitations of both the underlever and sidelever systems. The classic Monte Carlo cheekpiece stock has a walnut, satin sheen finish worked into Beechwood - tougher and more stable than the best walnut stocks. It is built in .177″ and .22 calibers as well as .20″ and .25″.

For more information on this product contact Beeman Precision Arms, Inc., 3440 Airway Drive, Santa Rosa, CA 95403-2040. They have a wonderful descriptive catalog that outlines their entire product line for $3.00.

John J. Gammuto

SUNDAY - OCTOBER 27, 1991
GULF COAST GUN CLUB, CORPUS CHRISTI, TX
presents

THE TEXAS INVITATIONAL

1991 BR-50 NATIONAL CHAMPIONSHIPS: Sanctioned by BR-50 INTERNATIONAL; a two-match tournament (0900 & 1300) to be won by high aggregate average. **A NEW SPORT *** A NEW EVENT *** A NEW AWARD — the McMILLAN PERPETUAL TROPHY,** sponsored by McMILLAN FIBERGLASS STOCKS, for the RIMFIRE CHAMPION, and the AIRGUN CHAMPION, and a TOP-TEAM award from PRECISION SHOOTING MAGAZINE for the group (club representatives) with the highest average aggregate. Qualification for an "invitation to compete" is **TWELVE** (12) champoints in registered matches since January 1, 1991.

Also there are some "WILD-CARD" invitations available to encourage **all** BR-50 shooters to attend.

Saturday evening prior to Tournament Sunday, a "get acquainted" gathering is planned to shoot some Bandini Bullets and just HAVE FUN!

Entry fee: **$35.00 till October 1,** $40.00 thereafter.

To secure your invitation contact
MACKY G. LOCKLIN ** 417 Barracuda Pl. ** Corpus Christ, Texas, 78411. (512) 852-0497

Larry Brown
Competition Coordinator/BR-50 INTERNATIONAL — (619) 299-4455

.475 & .510 JACKETED BULLETS AVAILABLE

John J. Gammuto

Anyone reloading the .475 or .510 caliber bullet can certainly attest to the fact that quality bullets are indeed rare. A company by the name of Ballard Built Custom Bullets has changed all of that.

The standard grade of bullets produced by the firm are more than adequate for load development and/or practices sessions. Their premium grade, with a bonded core, are ideal for expansion control and weight retention in field conditions.

Ballard Built produces quality .475 diameter bullets for rifles and dedicated handguns. The bullets have 1 E ogives and sport a number of design configurations, i.e., open tip to lead tip. Flat nose and hollow points are also available, depending on desired weight. Commonly available weights range from 400 to 600 grains.

The .510 caliber bullets sport a 3/4 E ogive and come in the same design styles and weight classifications as the .475 variety.

The company's goal is to not provide customers with a wide range of quality hand swaged, multi-weighted, and physically correct projectiles, but to meet the specific needs of their unique clientele. The firm is most eager to assist the uninitiated and serve as a resource to the advanced shooter.

Ballard also offers .030 or .040″ thick copper jackets in 1″, 1 1/8″, and 1 1/4″ lengths for the individual that owns his own set of dies and prefers to swage his own. They also have lead core wire in .185, .250, .300, .305, .360, and .390 diameters. The lead wire is conveniently sold in 10 pound quantities, and measures 17″ to 20″", depending on the diameter.

To give you an idea of what kind of money we are talking about, the .475″ diameter standard rifle bullets, weighing between 400 to 600 grains, sell for approximately $1.10 each. The same bullet in the premium grade bonded bullet sell for $1.60 each. Pistol bullets are slightly less expensive.

If you would like more information on the Ballard line you may contact the firm at the following address.

BALLARD BUILT CUSTOM BULLETS
P.O. BOX 1443
KINGSVILLE, TX 78364-1443
(512)592-0853

American
Single Shot Rifle
Association

An organization dedicated to the shooting and collection of single shot rifles from the turn of the century Scheutzen and Creedmoor traditions.

Traditional offhand, benchrest & long range matches are held every summer in the U.S. and Canada, using plainbase lead bullets.

For information & sample copy of the bi-monthly publication, THE ASSRA NEWS, write to: Larry B. Thompson, 987 Jefferson Avenue, Salem, Ohio 44460.

Salisbury Gun Club
presents

Maryland State
IBS Score Championships

100 yd.
Sat. 11:00 am

200 yd.
Sun. 9:00 am

Classes

Hunter
V. Hunter
Varmint for Score

Hunter
V. Hunter
Varmint for Score

Trophies will be given for 1, 2, 3
places in each class.

Advance registration appreciated.

Mail to: Jack Lewis
Rte. 3 Box 109B
Snow Hill, Md. 21863

Motels Holiday Inn 301-742-7194
Comfort Inn 301-543-4666
Lord Salisbury 301-742-3251

For Information
Jim Fykes 301-957-2866
Jack Lewis 301-632-1583

On the Yellow Brick Road....to Golden, Colorado

(Learning to load and shoot the Schuetzen rifle)

Part V:
Different Powders

by Richard Kayser

The Accurate Arms #9 has worked superbly in both of Dean MIller's .32 caliber designs. The original .32 Miller (at 1.520″) shot 11-12gr of #9 well under the 1 1/2″ goal at 200yds, and the shortened (.3″) version now in use fired a 497-17C for Dean at the Tulsa, OK, Coors Regional in June. So of course my natural impulse was to try a few other Schuetzen powders to see if I could "gild" this lily a bit.

Blue Dot is beginning to show up on match reports with a fair degree of regularity, and 4227 is widely regarded as the "Mother of all Schuetzen powders". As far as my rifle is concerned however, these two powders are worthless.

Blue Dot gave me the worst case of leading I have seen (in 27 years of trying to shoot lead) since I used Elmer Keith's suggested 22gr of 2400 with a wheelweight 240gr bullet in the first S&W 29 I owned. All that at less than 1200fps on a 75 degree day. 4227 gave me no leading, but also gave 5-shot groups at 100yds that looked a lot like the Turkey loads I patterned this spring with my Browning 12 gauge. Any further report would be a major waste of everybody's time.

Just this once, I am going to leave well enough alone. 10.5gr of AA #9 shoots under .5″ for 5 shots at 100, well enough to post scores in the 246-247 range at 200yds when I figure out the wind conditions. The rest of the time left me before the Coors Nationals I am going to just practice offhand, and cast more bullets. Look for the results in the October PS.

On that subject, the nice folks at Coors PR department burned a little midnight oil to get the "A" Squad roster to me about 15 minutes after the last shot was fired in Edmonton, Alberta, Canada, on Sunday July 7th.

The most frequently asked questions about my Miller-built rifle center around who and where I got all the nifty little gadgets needed to load and shoot from. The major hurdle to putting an old original back on the firing line, or building a new one was the lack of a dealer specializing in the single shot rifle accessories. WAS is now the phrase, since a new stocking dealer of Schuetzen appurtenances has appeared.

Thinking Schuetzen style shooting?

Why not start with
winning equipment?
It will pay in the long run.
D-M Actions
Barreled Actions and
Complete Rifles.

DE HAAS
DM
MILLER

Miller Arms Inc.
P.O. Box 260 Purl St.
St. Onge, S.D.
(605) 578-1790

CUSTOM reticles. Multiple dot systems.
New LEUPOLD scopes. 6.5X-20X conversions
to 8.5X-26X, 14.5X-35X, 18X-40X or 30X-50X.
All reticle changes and conversions limited
exclusively to LEUPOLD.

Send #10 SASE for free list of services.

PREMIER RETICLES
Route 3, Box 369 - Wardensville, WV 25851

Dick Vandenberg over in Columbus, Nebraska (see pp3 and 53, Feb 91 PS) is taking the plunge. He called to let me know that he expects to stock "almost everything a Schuetzen rlfle nut can think of...". Dick is another one of those Renaissance-type gentlemen in the single shot rifle game who has a number of fascinating hobbies. Aside from an obvious love of single shot rifles, Dick does an occasional assembly of the Shell Valley Motors Cobra replica for customers. This makes him the second confirmed Cobraphile I know of in the SS game, Warren Greatbach has an original 289 AC Cobra. For us mere mortals, Dick is an affordable way to savor the raw horsepower of the Shelby cars.

I spoke with Dick just before writing this article, to get an idea of the product lineup he will have. As he told me, "there are a zillion tool & die makers and craftsmen out there (both active and retired) involved with the Schuetzen game that make a special widget or two. I'm trying to gather all of those handcrafted accessories under one roof, where newer shooters can find them easily." Dick has the hard-to-find Kepplinger triggers for Ruger #1's, a large supply of most of the Schuetzen caliber brass, and a lot of things I don't have space to list here. A SASE and $1 gets you the newest pricelist.

Dick will have a full table under the manufacturer's tent at the Coors Nationals the 16th thru the 23rd this month at Golden. I will try and get some more information then.

The list following is the most complete one I have at this time of Schuetzen suppliers. I am sure I missed several somebodies, let me know and I will get them in the next article. See you at Golden.

Dean Miller Arms
PO Box 260
St Onge, S. Dakota 55579
605-578-1790
Miller-De haas actions and
tools a few complete rifles

Steve Meacham
1070 Angel Ridge Rd
Peck, Idaho 83543
208-486-7171
Meacham-Hoch actions and
a few complete rifles

Bruce Thom
4460 S Forest Rd
Rathdrum, Idaho 83858
206-687-0341
the BAT action and
complete rifles

Paul Shuttleworth
1815 Ladwell Dr
Maple Glen, PA 19002
replica Stevens 44 1/2
actions and rifles, plus
most SS rifle stock blanks

Ron Long
81 Delta Street
Denver, Colorado 80221
303-428-7835
Barrels, bullet moulds
accessories and a few
complete rifles

Jerry Barnett
1262 Thompson
Emporia, Kansas 66801
316-342-7257/6034
bullet moulds and assorted tools

Dick Vandenberg
Vandenberg Schuetzen Supply
2410 25th St
Columbus, Nebraska 68601
402-564-2981 W-Th 7-11pm CST
anything you can think of for
Schuetzen rifles

Neal Rice
9035 64th Place
Arvada, Colorado 80004
303-423-0492
most anything for SS rifles
and a few complete rifles

Douglas Barrels, Inc
5594 Big Tyler Rd
Charleston, West Virginia 25313
Barrels and chambering work

Coors Brewing Co
attn: George Valuck
Golden, Colorado 80401
1-800-525-3786
Schuetzenfest information
August 16-23, 1991

I have had a number of enquiries about the barrel on my rifle. An accurate barrel is the heart of any rifle, and this one is no exception. Douglas barrels are the choice of the vast majority of Schuetzen competitors. They make a superb 8mm/.32 caliber barrel, and those barrels grace most of the Coors/ASSRA rifles I have seen.

The Fowler 110gr Flatbase LoDrag

I got the bad news at Super Shoot XIX from Clay Spencer. Bob Simonson had had a serious accident due to equipment malfunction while skydiving. The fact that the 115gr LoDrag boattail bullet dies would not be here for at least six-eight months pales beside the nature of Bob's injuries. I am sure that all of you join me in wishing Bob a speedy and complete recovery from his fall.

Jef Fowler passed on SSXIX in order to try and get a longer bullet out of the 85gr dies Simonson delivered in early April. J4 has provided us with 1.15″ length jackets for the big bullet, and Mr. Fowler has come up with a 110gr version of that flatbase design. The extra length comes in bearing surface, the new bullet mikes 1.125″. According to Dan Lilja's computer it sports a vastly higher BC, ranging up to .539 at 4000fps. I have listed them here. The linear progression is an interesting one, .009BC per 100fps.

Velocity	BC
3500	.494
3600	.503
3700	.512
3800	.521
3900	.530
4000	.539

The velocities are attainable in a couple of today's bigger cases, the 25-284 and 257Wby and at least 3800fps in my Banshee. I have hit 3840fps, and those numbers are attainable with the WCC860 powder from McDonald. It is the same (by my testing) powder as the RV0-62. I am going to try the RVO-65 as soon as time permits, Work and practice for the upcoming Coors Schuetzenfest Nationals are taking a lot of time. I hate to get the numbers, with the unavailability of any more RVO-65. The RVO-62/WCC860 works very well, I had groups in the .275-.300″ range consistently at 3700-3800fps. A quick run through the computer using 3800fps and the .521 BC gives cause for celebration with the Banshee. This may be that 1000+yd Rockchuck load.

I did get two just past 800 yards with it early in July, but the 90 degree weather sends them down for the summer. Next year!!

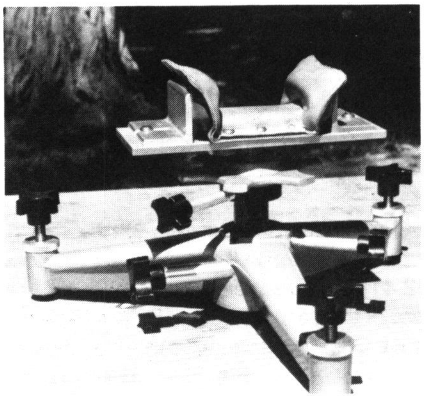
PRAIRIE DOG HUNTERS!
Revised guide with more towns, services, basics. Plus info on 1990 ANTELOPE HUNT, no drawing, hunt any day. Prairie dog, bird hunting & fishing on same permit. ***Prairie Dog Hunter's Guide—Montana '90.*** $14.95 + $2 shipping. **C.W. Cornett,** P.O. Box 9711, Fresno, CA 93793

CORRECTION

The phone number for Tim Tanker, of Tim's Tubes, in Rick Hornbeck's column of the February issue is incorrect. The correct phone number is (619) 941-4552. The address is correct as shown.

The new

Bald Eagle Front Rest



PATENT PENDING

$139.95

with the standard top plus shipping

VISA MasterCard

MATERIAL:
Aircraft Quality Aluminum
WEIGHT:
7 pounds, 12 ounces (with bag)
FINISH:
Imron clear, 3 coats
FEATURES:
— Rack and Pinion on primary rise
— Fourth leg
OPTIONS:
— Rifle Stop
— Deluxe top with stop
— Bag Available
— New, Windage Top Available

BALD EAGLE
PRECISION MACHINE CO.

101 Allison Street
Lock Haven, Pa. 17745
(717) 748-6772
FAX (717) 748-4443

BILL GEBHARDT
NRA Endowment Member/
IBS Life Member/NBRSA Annual Member

The Banshee and Heavy Bullets... Fueling the Velocity VS Efficiency Fire

by

Rich Kayser

I have always believed that the primary rationale for Wildcatting is to fill a void in the factory offerings. Be that an improvement in accuracy like the 6PPC or the BR series, or (my specialty) increases in velocity over the same caliber factory cartridges. Some people like the idea of more efficient designs, like the excellent work Bob Jourdan has done with the 250-3000 and 257 Roberts with Ackley-type Improved cases. They are excellent mid-range performers.

Back East the distances available to varmint shooters are seldom over 400yds due to population density. That same population is a compelling reason to utilize soft-spoken cartridges like Scott Kindler's 17 Mach IV. One roar from the 85gr Fowler 4200+fps load in the Banshee back East would have milk cows drying up for a 20 mile radius.

Out West where I live is another matter entirely. I have talked about Idaho's size (82,413 square miles), the fact that 70 percent of the state is owned by the Federal or State Governments, and the best news of all... population. We have just over one-million residents, and nearly one-half of them live in the Boise area. The June issue had an article about the first Rockchuck Shoot of 1991, and the fact that four of us harvested 83 Rockchucks in a day and a half.

I spoke with Dan Lilja a week or so after the shoot, and he indicated that he and Allen Allen shot 23 or 24 more that Sunday afternoon after Russ Haydon and I left for home. One hundred and six Rockchucks in two days by four shooters. That is a season's tally for most Eastern Groundhog shooters. Two-thirds of those chucks were shot at distances over 450 yards, thirty-some past the 600yd mark.

Dan Lilja's rangefinder made the first shot hit percentage over sixty-percent, showing the need for a quality 250-2000 yard model to be put into production by somebody today. Even then, however, a high velocity/BC load is the best way to solve the problem of longrange varmint hitting. The only way to get a high ballistic coefficient bullet in any caliber (from the factories or custom makers) is to go up in weight. Weight increase results in velocity decreases, and the only answer is a bigger case to restore velocity levels.

I consider the .257″ caliber to be optimum for this longrange varmint shooting sport. The 22 and 6mm bullets in a comparable BC are hobbled by the 8″-9″ twist requirements. The .600+ BC of the 115gr LoDrag 25 was designed by Bill Davis to work in a 10″ twist. We are finally getting a couple of good bullets from the custom makers. Mac McCluskey's 82gr and Jef Fowler's 85gr LoDrag bullets are great performers, and Mac is working to produce a 100gr boattail.

I spoke with Jef Fowler shortly after the Super Shoot, and he has a 110gr flatbase 25 underway. With Bob Simonson's accident leaving him out of the bullet die-making business for several months, the 115gr LoDrag will be an early 1992 introduction.

Back to longrange shooting. Bob Jourdan has had quite a bit of data on the 250 Ackley Improved printed in PS. His cartridge is a good one, but the numbers are inadequate for my type of shooting. The top velocity with 85gr bullets is almost 600fps behind the velocities attainable with the Banshee, a spread it maintains all the way across the board. I am shooting the 100gr Nosler Ballistic Tip at 4038fps, and the .393 BC gives me a 25yd margin in yardage estimation on Rockchucks. I received a box of the Fowler 110gr flat base LoDrags to test, and the .521 BC at my 3840fps test velocity is even more effective.

Once I get Santa to bring me one of those Barr & Stroud rangefinders I hope to shoot/hit out **past** 1000 yards on Rockchucks consistently. If the 1000yd Benchrest Club members can learn to dope conditions that far, I think that I can.

I do not wish to sound as if I am denigrating Bob's efforts or the opinions expressed by Lee Rogers in the June PS; for about 99 percent of the shooters a 257 Roberts Improved, a 6-284 or a 25-284 is a perfect varmint rifle. For a few of us, blessed with miles and miles of open range to shoot on, varmint accuracy **past** the half-mile mark is the Holy Grail. I have a couple charts here somewhere that illustrate the vast performance gap between the "standard" Wildcats and "maximum effort" cases like the Banshee.

Velocity increases seem to be tied to case capacity, assuming a suitable powder is found. The numbers I have seen mentioned use a 1:4 ratio. Divide the powder increase

BROUGHTON RIFLE BARRELS

Harolds' Custom Gun Shop Inc.

S.S. Match Grade barrels in
22 - 6 - 25 - 7mm - 30 Cal

We Specialize in Top Accuracy
Bench Rest, Live Varmint and
Hunting Rifles as well as
aluminum pillar bedding in
wood and synthetic stocks.

Harold & Bruce Broughton
Benchrest Gunsmiths

Rt. 1 Box 447
Big Spring, Tex 79720
915-394-4430

The Ultimate in Rifle Competition!

Subscribe to *NBRSA News*
a monthly publication of
National Bench
Rest Shooters Association

Interested parties contact:
NBRSA Business Office
2027 Buffalo
Levelland, TX 79336
(806) 894-4002

NBRSA News

CUSTOM BENCHREST RIFLES
AND ACCESSORIES BUILT
TO YOUR SPECIFICATIONS

SCOTT'S CUSTOM RIFLES
23089 Englehardt
St. Clair Shores, MI 48080
(313) 779-4735

by four to get the maximum velocity increase available. Assuming a 60grain capacity for the 25-06 and the 90gr capacity of my Banshee we get a 50-percent increase in capacity. Dividing that by four gives us a 12.5-percent increase. 12.5 percent does not sound overwhelming, but with a 3400fps maximum for the old 25-06 with 100gr bullets my 4038fps average MV is a 638fps advantage.

I had a ballistics imposed 500yd ceiling on chucks until I read "the Gospel according to Boyd Mace" a couple years back in PS. Boyd told me to "build an HV or pre-railgun Unlimited-style bench rifle, but chamber it for a big cased 6mm." Now we have Jimmy Knox' JLK high BC .22 bullets, and the .25 caliber bullet market is really starting to look up. There are already fantastic 6mm bullets available from Walt Berger, so the bases are now covered in the basic varmint calibers (22-6mm-257″).

I have been working a little with the 100 and 120gr Speer bullets, trying to find a better longrange load than the Nosler 100gr Ballistic Tip at 4040fps. The 100gr Speer finishes in a dead heat as far as velocity or accuracy with the Nosler, and the 120gr does not make up the initial velocity deficiency out at the longer distances. It looks as if 100gr is the optimum weight for **factory** bullets in the Banshee.

The new 110gr FB LoDrags by Jef Fowler are a whole different breed of cat. The 110gr weight and 9S ogive shape give the bullet a superb BC. I spoke with Dan Lilja and his computer tests indicate it to range from .494 at 3500fps to .539 at 4000fps. At my 3840fps test velocity it figures out over a .521 BC. OAL on the newest Fowler offering runs 1.125″.

I think Mr Editor Brennan enjoys a little controversy in the magazine. This article may fan the flames. The usefulness of the smaller cases is limited by the rainbow trajectory to shorter ranges than I consider sporting for Rockchucks. I have no prairie dog towns within a days' drive, so the major advantages of less barrel erosion in 500 shot days are lost on me. The barrels on my longrange rifles do not heat up shooting a shot every couple minutes, or even three or four shots in a two or three minute span.

If I shot prairie dogs or any live varmints where a large number of shots were taken rapidly and barrel life meant that much to me I'd go to cast bullets in my centerfires or use a real efficient cartridge... the .22 rimfire. Now there's two cost-effective ways to kill a lot of varmints. Barrel life would be infinite, and the cost of components would be minimal.

If most of you out there are satisfied with the limitations that the "standards" impose on you, that's fine with me. It leaves more Rockchucks for the longrange shooters. Some people have to stand a little closer than others. Just don't tell me about how small the margin of performance is until you compare them real closely.

Even with a rangefinder, the additional drop of the smaller cases is tough to compensate for. Forget trying to put in this much elevation and windage correction without lines and dots like the shown diagram. Even then, holding 6-10 feet high and that far off for the wind is a losing proposition and rather ludicrous.

All this data is for a 400yd zero and a 10mph wind. 250 Ackley Improved Bob Jourdan's velocity data and ProWare's figures.

I did use Nosler Ballistic Tip BCs for his 85/100gr bullet data to make the comparison easier.

Continued on next page

NEIL JONES CUSTOM PRODUCTS

NEIL JONES
CUSTOM PRODUCTS

NEIL JONES
CUSTOM PRODUCTS

R.D. 1 BOX 483-A
SAEGERTOWN, PA 16433 (814) 763-2769

At Neil Jones/Custom Products, we have more than twenty years experience in designing and manufacturing the most accurate reloading tools on the market. Our micro dies are available to fit any cartridge — standard or wildcat and they are offered in either 7/8 x 14 threaded press dies or straight-line hand dies preferred by benchrest shooters. Our micro powder measure is second to none in accuracy and repeatability with even the toughest powders. All of our tools are designed to do the best job possible with improved accuracy as the goal. We will assist customers with unusual or difficult handloading problems.

- MICRO POWDER MEASURE
- MICRO SIZING AND SEATING DIES
- CLEANING RODS / CUSTOM ROD GUIDES
- CASE FORMING DIES
- 22 RIMFIRE ACCURACY GAUGE
- DE-CAPPING TOOL
- GUN CLEANING SUPPLIES
- CASE PREPARATION TOOLS
- DELUXE ARBOR PRESS
- REMINGTON TRIGGERS REWORKED

Send $2.00 for a catalog of tools, prices
and useful reloading informaiton.

DISCOVER, VISA, MASTER CARD ACCEPTED

THE BANSHEE AND HEAVY BULLETS *Continued*

A. 75gr (Hornady) .255 BC MV 3850fps
B. 85gr Nosler Ballistic Tip .331 BC MV 3683fps
C. 100gr Nosler Ballistic Tip .393 BC MV 3408fps

250 Ackley Improved Charts

A: Range	VEL	Path	Wind Def
0	3850	-1.25	0.00
100	3478	4.09	.73
200	3138	6.54	3.01
300	2822	5.47	7.01
400	2528	0.00	13.08
500	2253	-10.92	21.49
600	1995	-28.87	32.75
700	1756	-55.58	47.17
800	1539	-94.28	65.65
900	1350	-148.44	88.60

B: Range	VEL	Path	Wind Def
0	3683	-1.25	0.00
100	3405	4.12	.56
200	3144	6.47	2.39
300	2899	5.33	5.50
400	2667	0.00	10.20
500	2447	-10.15	16.49
600	2237	-26.20	24.75
700	2037	-49.24	35.16
800	1848	-80.51	47.88
900	1673	-122.98	63.83

C: Range	VEL	Path	Wind Def
0	3408	1.25	0.00
100	3187	4.72	.56
200	2978	7.27	2.20
300	2778	5.91	5.05
400	2587	0.00	9.29
500	2404	-10.99	14.88
600	2228	-28.17	22.27
700	2060	-52.34	31.45
800	1891	-84.38	42.45
900	1747	-126.87	56.11

257 Banshee my velocity data and ProWare's figures.

A. 75gr Hornady MV 4250fps (not shown velocity listed for reference not enough of them made it to the target to quantify results.)
B. 85gr Nosler BT BC .331 4V4200fps
C. 85gr Fowler LoDrag .372 BC MV4265fps
D. 100gr Nosler BC .393 4038fps MV
E. 110gr Fowler FB LoDrag .512BC MV 3700fps

257 Banshee Cahrts

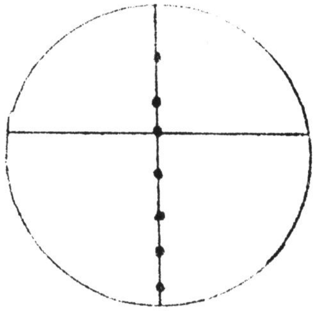
B: Range	VEL	Path	Wind Def
0	4200	-1.25	0.00
100	3887	2.93	.49
200	3595	4.80	2.06
300	3322	3.98	4.75
400	3067	0.00	8.75
500	2826	-7.64	14.08
600	2598	-19.71	21.04
700	2380	-36.82	29.63
800	2174	-60.63	40.35
900	1978	-91.19	53.23

C: Range	VEL	Path	Wind Def
0	4265	-1.25	0.00
100	3981	2.69	.44
200	3715	4.44	1.79
300	3464	3.67	4.13
400	3229	0.00	7.54
500	3005	-6.99	12.10
600	2793	-17.83	17.94
700	2591	-33.19	25.23
800	2397	-53.59	33.95
900	2212	-80.31	44.57

D: Range	VEL	Path	Wind Def
0	4038	-1.,25	0.00
100	3765	3.11	.44
200	3525	5.01	1.80
300	3298	4.11	4.14
400	3083	0.00	7.59
500	2879	-7.71	12.13
600	2683	-19.70	18.05
700	2496	-36.50	25.33
800	2317	-58.76	34.07
900	2145	-87.84	44.73

E: Range	VEL	Path	Wind Def
0	3700	-1.25	0.00
100	3517	3.59	.36
200	3342	5.62	1.47
300	3175	4.52	3.45
400	3013	0.00	6.22
500	2858	-8.33	9.91
600	2708	-20.99	14.68
700	2563	-38.36	20.46
800	2422	-60.87	27.29
900	2286	-89.47	35.48

This is what Dick Thomas at Premier Reticle refers to as the "Mace Reticle". It is a superb longrange design, and can function as a "Poor Man's Rangefinder" as well. The 3 moa dots work well to bracket a 15-16″ tall rockchuck, being a perfect fit at 500yds. Divide the drop on any of the charts by the distance to find the moa drop.



I had not quantified the drop differences before Lee Roger's statement that the big cartridges were not worthwhile/cost effective shooting varmints. 5-600fps was such a big number to me that I never bothered. Looking at the drop with the Nosler 100gr Ballistic Tip in Jourdan's 250 Ackley versus my Banshee, I see **39 inches less drop** at 900yds using my big 25, and a **foot** less wind drift. If I stay with Jef Fowler's new 110gr FB I have even greater longrange performance, with the welcome addition of even less wind drop (35.5″ VS 44.73″).

We are talking about more than a yard less drop here, plus a foot less of wind drift with the same bullet. That is a BIG set of numbers to compare (to me). Everybody has an opinion, or several, and the ongoing discussions are a big part of PS's appeal. Just get a good look at the numbers before you tie on too fast and hard to one choice. Velocity versus Efficiency is why we have Corvettes and Geo Metro's. You pays your money and makes your selection.

I spent the last 13 summers doing a lot of missing at longer distances before the Banshee came out and Jef Fowler got the 110gr LoDrag bullets into production. I can find Rockchucks at 1000 yards, and now I can even hit a few (on purpose). Before it was just a pipe dream. With a .521 BC benchrest quality bullet moving out at 3840fps MV I have even odds out there now.

Good shooting
Rich

Gun Digests, 1992's $12.95; 1991's $8.00; Flayderman's Fifth Edition $19.95. Postage paid by mail, book rate; Check, Visa, Master Card.
Neuman's Books
P.O. Box 496 Canton, IL 61520
309-647-1029

MARMOTA MONAX

by

Jerry Faul

Dear Dave:

On a clear, late afternoon in May at 345 paces away, the Chuck appeared confused and very upset. Twice something noisy and presumably dangerous had come very close. The Chuck was trying to figure out exactly what was wrong and what he should do about it. At present, just his head appeared out of his "lookout hole". The Chuck was anxiously looking around for the source of this problem.

The Pres' Swift had barked twice (when I say barked, I mean "barked"). That stubby little 22 inch Hart barrel of the Pres' Swift really speaks when he pulls the trigger. Twice he had hit just a bit low. Now Bert was in a mental debate with himself about taking one more click up on his 15 power Simmons. While he was sitting there trying to make up his mind, I, said "Do you mind if I put this rather confused Chuck out of his misery?" Bert, said "I think you better wait until he comes all the way out.." BANG! The new Jewell trigger I had installed on my CPS (PAS) steel light varmint (SLV) action, 243 Ackley Improved (40 degree shoulder) .271 tight neck broke so clean and crisp that I was truly taken by surprise and very pleased.

The Chuck just disappeared in my scope. I had my Leupold 6x20 set on 20 power and I lost sight of the Chuck in the recoil and blast, although I got the impression that the Chuck didn't leave the field of view under his own power. A rather interesting discussion ensued on whether or not I had hit the mark or not. Needless to say, I was of the opinion that there was one dead chuck out there. Bert Rypkema, The Pres.', was not buying that idea and was anxiously looking through his newly acquired 8x30 Steiner binoculars for the Chuck to reappear.

I was using my most accurate loading of a 70 grain Sierra HPBT Match bullet on top of 49 grains of H 414 and a Federal 210 match primer. This load out of my 27 inch Hart barrel has grouped as low as .168 on a good day and is consistently in the high three's to low four's. I had placed the dot reticle just on the tip of the Chuck's ear as he looked off to my left. It was like putting a golf ball on the tee. My hold was steady, the shot broke clean (thanks to Mr. Jewell's trigger); but 345 paces is a long way off, when you are lying on the ground using a set of Harris bipods looking only at Mr. Marmota Monax's Head. I was about 85% sure I had hit the Chuck. The 15% of doubt being that I had no idea what the wind was doing down range beyond about 100 yds.

During the long winter season, I had decided to upgrade two elements on my Bob White gunsmithed 243 Ackley. I had replaced the Bushnell rings on Weaver bases with Davidson bases and Kelbly rings. The trigger was replaced with Arnold Jewell's HVR trigger set at about 12 ozs. The Jewell (Hunting/Varmint Model) HVR trigger can be configured to three ranges of adjustment depending on which spring is ordered with the trigger. Spring A: 8.0 oz to 72.0 oz (4.5 lbs) or more; Spring B: 2.5 oz to 16 oz; Spring C: 1.5 oz to 5.0 oz.

I elected to have the trigger supplied with Spring B and followed the complete and easy to read instructions supplied to adjust the setting to just about 12 ozs. Arnold Jewell (a PS advertiser) has developed a trigger to provide maximum adjustability in pull force, sear engagement, and overtravel without removing the trigger from the rifle. An added feature at no additional cost is the kind and gentlemanly advise you receive from Arnold if you call him with a problem. I freely admit I'm not an expert on triggers, but I do know that Arnold Jewell's triggers (I have them on my two Benchrest rifles in the BR model) are the best darn triggers my finger has ever touched.

By this time, the Pres. had decided to dial another click of elevation into his scope. He picked up his new Steiners and started looking for another Chuck to test his theory that he needed just a slight, sighting adjustment. He slowly turned around and looked behind us and announced that he had a Chuck head in sight between two telephone poles in the middle of a field about 150 yards away. Looking through my 6x20 Bushnell compact binoculars I could only see what looked like a small brown stick stuck in the ground. I said, "that's not a Chuck, its a 2x4 stuck in the ground." The Pres. said, "That 2x4 has fur growing on it and I'm going to take the shot." He did with great success. He thinking he shot a Chuck and me thinking he just killed a 2x4. "Great shot", I said, "you're a real killer when it comes to cutting lumber". Well! Another rather interesting long discussion followed. We could see that the only way to resolve these two disputes was to walk out to the two spots and see what really happened.

The Pres' 2x4 piece of lumber did in fact have fur and was dispatched with apparent speed and accuracy. Those new 8x30 Steiner binoculars were a real advantage to be able to see complete detail that I was missing with my older smaller, compact Bushnell's. More on this in a later article when we have a chance to do some real comparisons.

My Chuck was lying in the bottom of his hole neatly shot through the head from ear to ear. He went quick! I wasn't really pleased however with the bullets performance. It had not opened up in any way. The exit hole was exactly the same size as the entrance hole after passing through the skull. The 70 grain Sierra Hollow Point Boat Tail I have used for the last two years is amazingly accurate for a factory bullet. It is advertised as a match bullet, not a varmint bullet. After seeing this evidence I can appreciate why. Even so, I've noticed that this bullet will expand dramatically out to about 250 yds from my 243 Ackley starting at the muzzle at 3650 fps. However, after 250 yds the bullet's performance is inconsistent for hunting use. I wish I knew for sure what its velocity is at 350 yds; but I haven't had the chance yet to chronograph any distance other than about ten feet from the muzzle. I just recently acquired a supply of the new Nosler 70 grain ballistic tips in 6 mm and will give them a try in the near future.

I'll let you know how the next trip turns out.

Jerry Wm. Faul

Lilja Precision Rifle Barrels, Inc.

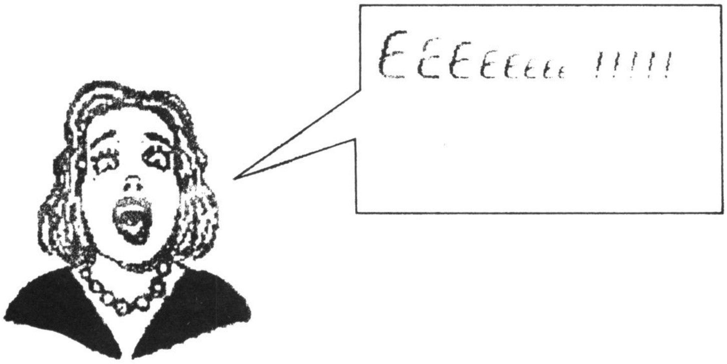
Proven in the major Benchrest Tournaments: The NBRSA and IBS Nationals; The Super Shoot; The Cactus; The Crawfish; Williamsport; and Regional Matches.

Lilja barrels are available in stainless steel for
- Benchrest
- 1000 Yard Benchrest
- Long-range Hunting
- Rifle and Pistol Silhouette
- Highpower
- Smallbore
- High Grade Hunting Rifles

We have a large selection of calibers and twists, including the correct twists for V.L.D. bullets, available. We also offer fluting and chromemoly barrels. For more information contact:

Lilja Precision Rifle Barrels, Inc.
245 Compass Creek Road
P.O. Box 372
Plains, Montana 59859
(406) 826-3084 FAX (406) 826-3083

OFFICIAL SCREAMERS



January is a bleak time of year. The holidays are behind us, the bills are coming in for said holidays, and there's nothing to look forward to until St. Patrick's Day.

BOB HOLTZMAN fired the first screamer of the new year, with an .095 at the Phoenix range, in the heavy varmint class, on January 5th.

ROYE LECKEMBY shot the only other January screamer, an .090 at Davie, Florida on January 19th. The deed was done with a short 6BR.

— — — —

February is pretty bleak also. Try not to forget Valentine's Day. A good time to plan building a new rifle.

ED ADAMS shot the only screamer for the entire month, turning in an .097 group at the Phoenix range on February 2nd.

— — — —

March is an important month. St. Patrick's Day is very important to many of us. Offsetting this somewhat is the advent of March winds . . . which often blow right through the entire shooting season, for some strange reason. One would ordinarily think that they would stop blowing on March 31st. What layman has ever heard of June, July, or August winds? Benchrest shooters see them often.

JEFF GOTTSCHALL fired an .096 light varmint group at the Cactus Classic.

DON CREACH fired an .094 heavy varmint group at the Cactus Classic.

— — — —

April, not all that surprisingly, brings April showers. This is the topic of a popular hit song . . . "Though April showers . . . may come your way . . .". Many of us know the song. Many of us like the song. Next time that there are a dozen of you, at a match, in April, in mud up to your knees, trying to push the target crew's truck out of a mud bog, try singing it when the truck's rear tires are spinning mud all over the group. We doubt if any of the others will join in the chorus. But they may.

SAM ARNETT just made it under the wire, with an .099 group at the Knoxville range on April 21st. This was Mr. Arnett's first benchrest match. There's always a wiseguy in the crowd.

JOHN BUNCH shot an .086 group in the light varmint class at the Crawfish Invitational. Mr. Bunch used a Hakko scope, an uncommon creature on the firing line.

SKIP OTTO, who has been turning up at matches all over the countryside in 1991, shot an .095 heavy varmint class group at the Crawfish.

JERRY JOHNSON, a hot gun in early 1991, just made it under the 200 yard wire, with a .199 at the Crawfish.

CHARLES TUTTLE fired an .095 light varmint class group at the Crawfish.

GARY CONAWAY, who made a career out of second place finishes in 1990, turned in a tidy little .061 group at Kelbly's Range on April 6th.

TOM MILLS of Provo, Utah (okay, hold the jokes about his working at the Provo Loan Company), turned up with an .082 group at Visalia . . . a range that usually gives us more screamers than any other, over the course of a year.

RALPH COUNCIL of Texas fired a nice .070 group in the light varmint class at the Central Texas range. Note that only Texans shoot screamers at Texas ranges.

DON GENTNER did it the hard way, with a 10 shot unlimited class 200 yard group of .351 at the Charlotte, N.C. range.

THE RANSOM RIFLE MASTER
available from
SINCLAIR INTERNATIONAL

Ransom Rifle Master shown with Omni Bag Plate plus accessories

The Ransom Rifle Master is made for those shooters who want only the best equipment for their rifles.

Comprised of carefully selected materials machined to close tolerances, this rest offers vibration resistant castings, a precision bubble level, and optional bag plates and end stops.

For a free color brochure about the Ransom Rifle Master and a catalog detailing our complete line of precision shooting products write or call:

SINCLAIR INTERNATIONAL
718 Broadway
New Haven, IN 46774
(219) 493-1858 FAX (219) 493-2530

SWITCH BARREL RIFLES

LIGHT VARMINT - HEAVY VARMINT COMBINATION

HEAVY VARMINT - HEAVY BENCH (CRUISER) COMBINATION

PRECISION BENCH
HUNTING & VARMINT
RIFLES

SEELY MASKER
54 Woodside South
Getzville, New York 14068
(716) 689-8894

TOM ARMOUR shot an .077 light varmint class group at Knoxville, Tennessee.

— — — —

May brings the flowers . . . which in turn bring hay fever, nasal congestion, and stuffed sinuses. May also brings the Super Shoot. May also brings favorable shooting conditions. But not at the Super Shoot, for some obscure reason. At least not in front of my bench.

JUDSON PITTMAN steered a 6BR to an .080 group at Fairfield, Ohio.

BILL PONDER shot a range-measured .040 group at Fairfield, on route to a .1618 100 yard agg. That's a rather small group, boys and girls. Mr. Ponder tells us that the shooting conditions that day were the best he had ever seen. The assistant editor was there that weekend. Cursing the difficult conditions, no doubt.

TOM MEREDITH, who has been known to turn out a nice stock on occasion, fired an .081 group at the same Fairfield match.

WARNER HAIL turned in another .081 group, at the same Fairfield match, shooting a 6mm Tall Dog.

GERALD FORYS shot an .093 group at St. Louis, using a 6BR.

KEN ROSSING, shooting a 6mm Tall Dog, turned in an .068 group at Holton, Michigan.

GEORGE CLARK, a very senior citizen, fired an .087 group at the Cody Shooting Complex. The very first screamer to be shot at this range.

FAYE BOYER, who does this sort of thing with some degree of regularity, shot a 200 yard light varmint class group that measured .161 at the York, Pa. range.

ROBERT DENTON shot a .163 200 yard group in the heavy varmint class at the Super Shoot.

RON SMITH shot an .093 group in the 10½ lb. class at the Super Shoot.

ED GUTHRIE shot a 200 yard group of .166 dimensions in the heavy varmint class of the Super Shoot.

GARY CONAWAY shot a tidy little .060 group in the 10½ pound class at the Super Shoot.

AL JOLY shot a Super Shoot record .064 group in the heavy varmint class at the Super Shoot. Unfortunately he wasted it on the warmup match. Shows what a lack of planning will do for you.

(To be continued)

HOW TO PROTECT AND ATTACK EPOXY

To prevent bore-cleaning solvents from seeping around the threads of your action screws and turning your epoxy glue-in job or bedding into jello, simply wrap the screw threads with Teflon Thread Seal Tape before insertion. The tape, available from hardware stores, is unaffected by Sweet's, Shooter's Choice, #9 and probably every other bore cleaner.

For a good seal, you may need to make two or more wraps around the threads. When you're satisfied with the thickness you've wrapped, cut the tape with scissors rather than tearing it, which stretches the teflon. Finally, rotate the screw between your fingers and lightly mash the teflon into the threads. That done, it's ready for insertion.

On the other hand, when you need to remove a smear of cured epoxy that is clinging stubbornly to metal unprotected with release agent, try Berryman B-12 Chemtool, an automobile product containing toluene, methyl alcohol and ethylene glycol monobutyl ether. Formulated to clean the inside of engines, it softens thin coatings of epoxy quickly.

I've also experimented with dissolving thick globs of epoxy, and by keeping the epoxy wet with Chemtool and continuing to scrape away the softened surface of the epoxy, you can, with some patience, remove larger amounts. This may be helpful when you've "glued" something you only meant to bed, such as a scope to rings.

One word of caution: Always test the stuff on any surface you plan to apply it, to make sure it attacks **only** the epoxy.

Dave Scott
27 Rough Creek
Granbury, texas 76048

BINOCULARS
RIFLESCOPES
SPOTTING SCOPES

ZEISS • SWAROVSKI • LEICA
SCHMIDT & BENDER
STEINER • BAUSCH & LOMB
UNERTL • NIKON • KOWA
LEUPOLD • REDFIELD
BUSHNELL • BURRIS • SWIFT

S. A. WENTLING CO.
P.O. BOX 355
HERSHEY, PA 17033
TEL: 717-533-2468
FAX: 717-534-1252

LEFT THE RANGE

EVERETT AMUNDGAARD, of Thief River Falls, Minnesota, died of cancer on July 2nd, 1991. Everett was a shooter for many, many years, and was a former NBRSA Director for the North Central region. He continued to shoot benchrest and prairie dogs to the end, despite the long time struggle with cancer.

— We Are Diminished —

I want to take this opportunity to personally thank all the people who took the time to write, call and send flowers to me in regards to my recent accident. Thanks again.

Robert B. Simonson

WIN A NEW BENCHREST RIFLE

$2000 Value

Stolle Action, Hart Barrel, Jewell Trigger, and much more.

MAJOR COMPONENTS HAVE GENEROUSLY BEEN DONATED BY MANUFACTURERS

All proceeds over actual cost will be donated to the United States Benchrest Shooting Team

$5.00 Raffle Tickets available exclusively from

BRUNO SHOOTERS SUPPLY
106 N. WYOMING ST.
HAZELTON, PA 18201
(717) 455-2211

1 V E Y B F E

2 O B G E D B

3 H R E K B F

4 O B G G E N

5 Y E B V E O

6 H V E R Y G V

7 R O E B G N E

8 N O R G C F P

9 E Y B F P O G

10 C Z F O P G E F C

11 H R O C K P E V C Y

12 S R G P O E S Y B V P

RANDY ROBINETT

On 6X Scopes

Dear Dave

I thought that you might be interested in a comparison between four 6X scopes (which are popular selections for hunter class competition).

The attached herewith eye-chart (reproduced here in 8½x11 size) actually measured 11x17 inches in real life. It was hung up on a target frame at 100 yards, and three guinea pigs were slected to make the comparison; Mike Bigelow, Troy Peterson, and yours truly. I explained to Mr. Bigelow and Mr. Peterson that while no wages would be paid per se, none the less they would greatly benefit from the experience, and they would walk away at the end of the day better men for their efforts. They seemed unimpressed by the declaration. It's hard to get good help in Iowa these days. (Editor: I'm surprised to learn that there's ANYONE in Iowa these days.)

Just to get some sort of a benchmark for the start of the test, we tried a look-see at the eye chart with a 36X Leupold. All three of us could read row #11; none of us got any sort of a reading on row #12. I might add that the weather was cloudy, fifty degrees, and no mirage present.

We started our testing with a Weaver T-6 scope just returned from Bill Ackerman's shop, where it was cleaned, blueprinted, and recalibrated. The results with the Weaver were:

Troy — 100% correct through line #3, line #4 - missed three, line #5 - no read.

Randy — 100% correct through line #3, line #4 - missed three, line #5 - no read.

Mike — 100% line #1, line #2 - missed one, line #3 - all correct, line #4 - missed three, line #5 - no read.

Lyman 6X All American, circa 1977.

Troy — 100% line #1, line #2 - missed one, line #3 - missed two, line #4 - no read.

Randy — 100% through line #3, line #4 - missed three, line #5 - no read.

Mike — 100% line #1, line #2 - missed two, line #3 - missed three, line #4 - no read.

Burris 4x12 Mini, set on 6X.

Troy — 100% line #1, line #2 - missed two, line #3 - missed one, line #4 - missed three, line #5 - no read.

Randy — 100% through line #3, line #4 - missed one, line #5 - missed three, line #6 - no read.

Mike — 100% through line #3, line #4 - missed two, line #5 - missed three, line #6 - no read.

Burris Mini 6X HBR.

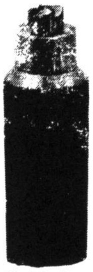
Troy — 100% through line #3, line #4 - missed two, line #5 - missed four, line #6 - no read.

Randy — 100% through line #3, line #4 - missed one, line #5 - missed two, line #6 - missed three, line #7 - no read.

Mike — 100% through line #3, line #4 - missed two, line #5 - missed three, line #6 - no read.

All guinea pigs were allowed to adjust for optimum focus before reading the chart. The clearest message from this unscientific excursion is that my own eyesight (Excuse #11) isn't all that bad. Neither are those Burris scopes. I've just purchased two new Burris 6X HBR scopes, with .375 dots, and am anxious to start actual testing. I can't comment yet on how they work out, but compared to the Burris mini 4x12, the "clicks" in the 6X HBR feel more positive, and also are noticeably more audible.

Randy Robinett
P.O. Box 72
Madrid, Iowa 50156



Primer Pocket Tools

Two types of carbide-tipped tools help you produce better handloads. Both have knurled handle's, and carbide tips should last indefinitely. MATCH PREP's shoulder produces uniform depth and flat-bottomed primer pockets to SAAMI specs, also cleaning out primer grit. The LIFETIME TOOL is a cleaner only, for either rifle or pistol cases. Specify large or small, $12.50 each. MATCH PREP in 3 sizes: small rifle and small pistol combined, or large rifle only, or large pistol only—specify; $22.50 each. Add $1 shipping for each tool. **Whitetail Design & Engineering, Ltd., 9421 E. Mannsiding Rd., Clare, Michigan 48617.**

Match Prep

Lifetime Tool

JIM GREENAWALT
102 BRANDON RD.
YONKERS, NEW YORK 10704
(914) 776-1581

BENCHREST AND VARMINT
PRONE AND COURSE RIFLES

- COMPLETE RIFLES BUILT
- BENCHREST CHAMBERING
- ACTION WORK
- BARRELS FLUTED
- FIBERGLASS STOCK WORK
- STOCK PAINTING
- GLUE-IN'S AND BOLT-IN'S
- GLASS BEADING AND POLISHING
- RELOADING DIES

FOR ALL OF YOUR
SHOOTING NEEDS

Most Top Ten Wins—5 Years in a Row!
Precision Shooting Survey—1986 through 1990

PRECISION STAINLESS STEEL MATCH TARGET BARRELS
Available in .224, 6MM, 6.5MM, .270, 7MM, .25 and .30 Calibers
also .22 rim fire

Quality Gunsmithing Services
Custom Target and Sporting Rifles

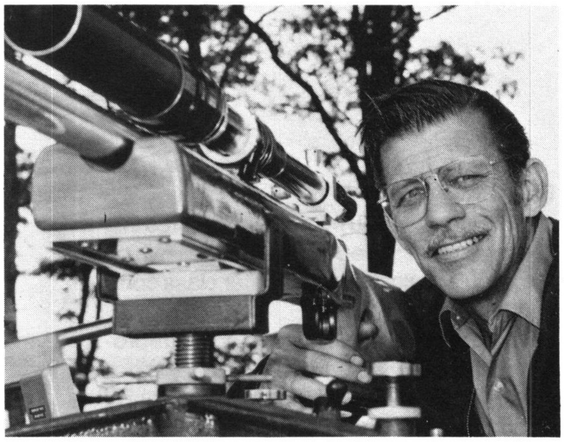
HART
Rifle Barrels, Inc.

For prices and particulars, call or write!

P.O. Box 182, La Fayette, N.Y. 13084 • Phone 315-677-9841 • FAX 677-9610

PRODUCTS

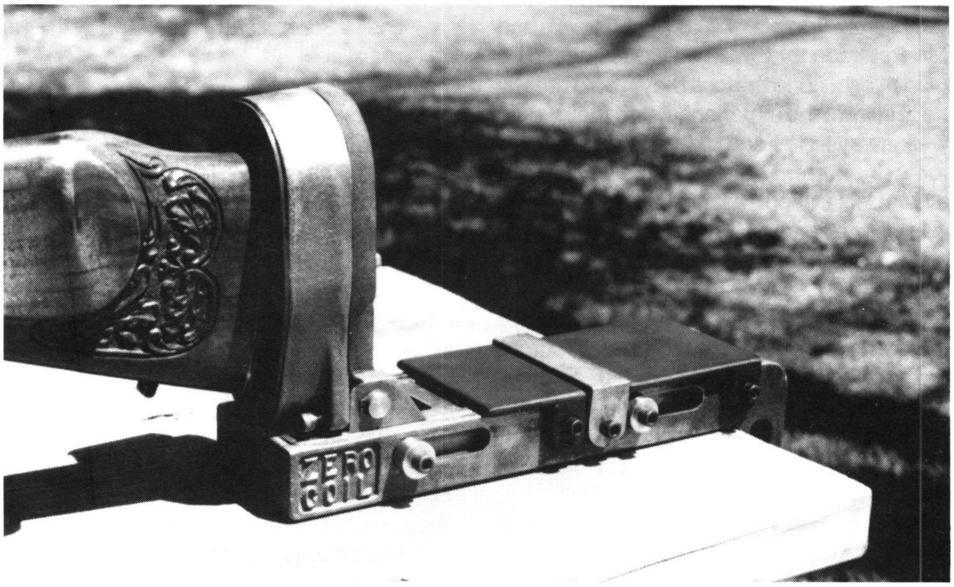
Lt. Col. Rick Hornbeck



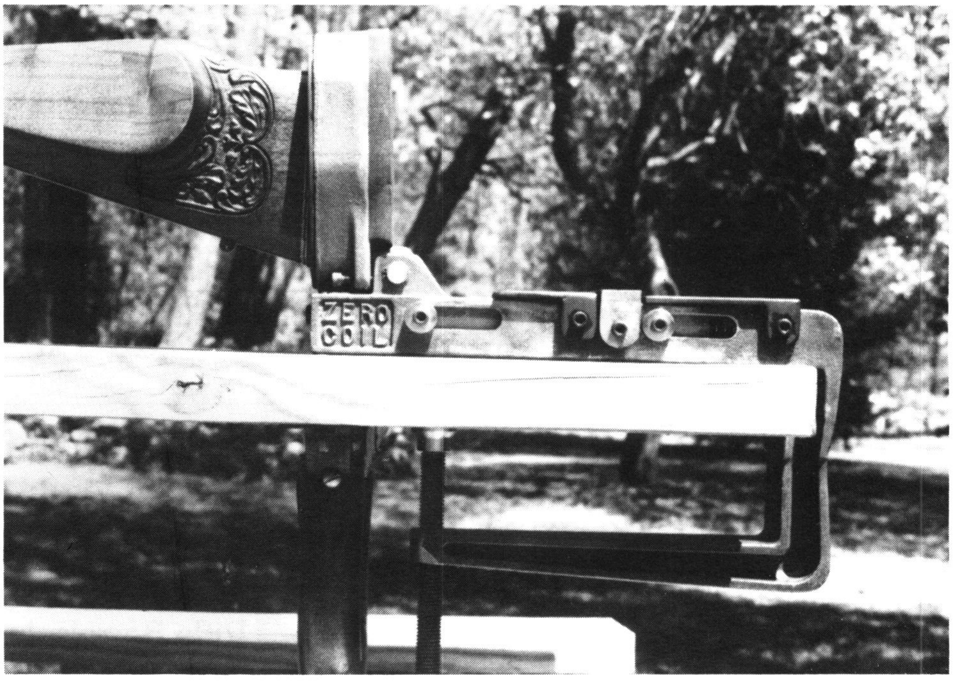
- **Zero Coil**
- **John Bunch Forming Dies**
- **WCRW Associates Powder Insert**
- **Bald Eagle Ribbed Front Bag**

When I was but a pup I occasionally would get my jollies shooting some cartridge with a boiler that was pushing the limits. Back in those days a bit of recoil pounding didn't seem to matter all that much. But now this 150 pound frame has racked up a certain amount of mileage, and either consciously or subconsciously, I just can't ignore heavy recoil the way that I used to. This past fall, while sighting in my son in law's 7x61 Sharpe & Hart, followed shortly by a .300 Weatherby Magnum, I became a very unhappy camper! It wasn't nearly the fun it used to be! If I had only had a Zero Coil the project could have been a fun thing.

Bob Pitts, of Eugene, Oregon has come forth with an item that turns every hard kicker that I've tried with the Zero Coil into a pussy cat. It turns a .30-06 into a .22 Hornet, and a .458 Winchester Magnum into something manageable. Once the pounding of the shooter stops, proper control of the rifle on the front sandbag is attainable, and one can settle down to load development, instead of merely trying to survive the session. You can shoot for the better part of the day without any fatigue, and eliminate the



The Zero Coil



The Zero Coil

BERGER BULLETS

.224 Caliber
52-60-62-65 Grain $10.00 per hundred

6mm Caliber
60-62-65
68-80 Grain $10.50 per hundred
105 grain $9.60 per eighty

Distributor for J-4 Jackets

Lead wire in following sizes:
.125-.185-.165-.218-.250-.365
1/2 of one percent antimony
$40.00 per 40 lb. roll
$26.50 per 20 lb. roll

Powder
T32 $70.00 per 8 lb. Container

4234 N. 63rd Avenue
Phoenix, Arizona 85033
Phone 602-846-5791
Fax 602-848-0780

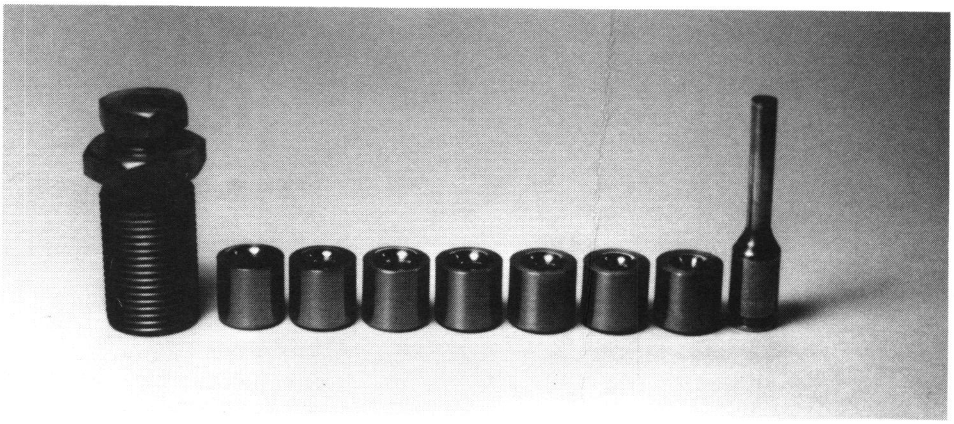
flinching that was markedly increasing your group size. Best of all, at the end of the day you're not all black and blue, with a general feeling that you've just gone 15 rounds with Mike Tyson.

The unit is quick to set up and adjust. The accompanying instructions are useful and complete. There are three allen head screws to adjust the buttcap to properly fit the butt angle. The buttcap is mounted on a heavy, ground shaft, and is lined with hard rubber to protect the rear of the rifle stock. If the instruction sheet is read with care you will not hurt or mar the rifle, and you certainly will cut down the recoil from any rifle known to mankind. You will not develop a flinch, no matter what the cartridge or load. After a few shots you will be able to settle down to giving your full attention to range conditions. Group sizes will shrink nicely. The accompanying instructions list do's and don'ts. For example, don't use Zero Coil with crescent or hook butt plates. Oil soaked stocks or granddad's old Parker are no-nos. Read the cautions in the instructions and you'll stay out of trouble.

For those who have the need to test fire high recoil rifles, this unit will make life a lot easier. It will also be useful for those who pattern or chronograph shotguns. Pull length is increased only 5/8", and I found scope eye relief no problem with the average hunting scope.

Zero Coil will last a lifetime, and will also enable your right shoulder to last a lifetime as well. The price is $206.00, including shipping and handling. Made in the USA. Zero Coil Inc., P.O. Box 22535, Eugene, Oregon 97402. (503) 689-2337.

****



John Bunch forming dies

We've talked about case forming dies in these pages previously, the most recent being in the May '88 issue. Such dies are necessary for those who are into wildcat case development, or who have to form cases in one fashion or another. Custom made forming dies for a particular case and chamber are made by RCBS and Redding, and many of our custom gunsmiths can also make up the required dies. A few sets of such dies and we have some big bucks involved. But for those who want to form a new case, or a new wildcat, a new something-or-other, where you move shoulders back, forward, or off to the side or wherever, such dies are quite necessary.

John Bunch now offers a set of forming dies that makes moving case shoulders a snap. The die set, which consists of a die body and seven bushings, allows us to push shoulders back with the average reloading press. The die body has a threaded cap which holds the bushing in place and allows us to properly adjust the bushing height within the die body. The photo shows the results of running a .30-06 case through the seven bushings! The forming die set is supplied with instructions that will help no end in getting this die set to do what it is able to do. Even if you have no experience in wildcat case forming you will be up and running in short order. There are also some general tips that will be found to be quite useful, ideas that have been learned over a period of a lot of years of experience. For instance, know what is a dandy case lube for sizing? Try some Crisco, which can be found in most kitchens! If you are using fired cases clean them well before starting the case forming. The bushings are hard, but dirt will scratch them, and thereafter formed cases will have scratches. The set should last several lifetimes, and do an awful lot of work in those years.

The price for the forming die set is $125.00, plus $3.00 shipping. Made in the USA. Contact John Bunch Custom Rifles, 5303 Jefferson Route 2, Garland, Texas 75048 (214) 530-7136.

****

Over three decades ago Homer Culver took a Lyman 55 powder measure and made a major improvement with his insert design. The Lyman 55 powder measure was born in the late 1880s when John Barlow founded the Ideal Manufacturing Company, and the measure back then was known as the Ideal No. 5; it was the first practical adjustable measure. Homer's insert was the first to offer perfect repeat settings. His basic design has been adopted by others, and is very hard to improve on. Bob Wechter, of WCRW Associates, was smart enough not to try to improve the Culver design. He has however made a like powder measure insert using modern materials and machine technology and a lifetime of experience in machine shop work and management.

This powder insert has the main body, insert, and knob made of #1018 steel, which has been industrial chromed for wear protection, and acid and rust protection. The lead screw, springs, ball detent and other fasteners are made of stainless steel. The lead screw nut and bearing are made from bearing bronze.

Continued on next page

Jarrett Rifles Inc.
VARMINT & BIG GAME RIFLES
BUILT TO BENCHREST STANDARDS

WE ADMIT THAT OUR RIFLES HAVE ONE FAULT . . .

. . . They make you dissatisfied with all your other rifles. We build to one standard, regardless of caliber, regardless of whether it's a varmint, beanfield, or big-game rifle, and that's the **Jarrett Benchrest Standard** that's set 15 world records. We do not work cheap, but 90% of the people who have bought one of our rifles have come back for a second, or more. If you'd like the pleasure of owning a rifle that's put together RIGHT, you can start by sending $4.00 for our information package.

Kenny Jarrett; **Jarrett Rifles, Inc.**, 383 Brown Rd., Jackson, S. Carolina 29831
TEL (803) 471-3616 — FAX (803) 471-9246

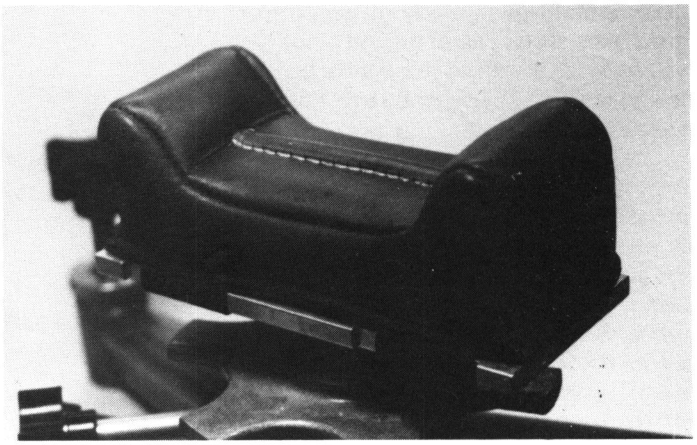
SHOOTIN' VANE

CONTACT:
GRANT WILD
8810 CROSS ROAD
HORTON, MICHIGAN
49246
(517) 563-8294

A MUST FOR
COMPETITIVE SHOOTERS
- SENSITIVE TO THE WIND
- EASY TO SET UP
- OVER 30" OF VERTICAL ADJUSTMENT
- THREE ADJUSTABLE LEGS
- ALL MATERIALS ARE NON-CORROSIVE OR PLATED
- FLUORESCENT ORANGE ON ONE SIDE AND WHITE ON THE OTHER
- HIGH TECH MATERIALS

Call for information and prices. A variety of flags, stands and accessories to choose from.

WCRW Associates powder measure



Bald Eagle ribbed front bag

PRODUCTS

Continued

Two models are offered. Model #1 offers 2/10 grains per click, while Model #2 offers approximately 1/10 grains per click.

I have been using this powder measure and insert this spring, and found that it gave perfect repeatability. Because the insert is made of steel, cold weather will develop some level of static electricity which will in turn cause powder hang-up within the measure. All powder measures tend to do this in cold weather, and those with a lot of steel parts seem to be more of a problem in this department. Realistic Record Cleaner Spray (Radio Shack catalog no. 42-2500) is very effective in doing away with the static electricity problem. Take the measure apart, spray the parts and the powder reservoir, let dry for 15 minutes, and you are ready to go. The top of the measure has been drilled and tapped for the Sinclair bottle adopter. The price is $179.95, plus shipping. Made in the USA. MCRW Associates, RR #1, Box 1425, Sweet Valley, Pa. 18656-9769 (717) 864-3967.

KELBLY, INC.

Manufacturers of - - - -

— *the Stolle Panda, Polar, Kodiak, and Teddy Actions*

We are now making 30mm scope rings to fit Stolle actions and Davidson bases.

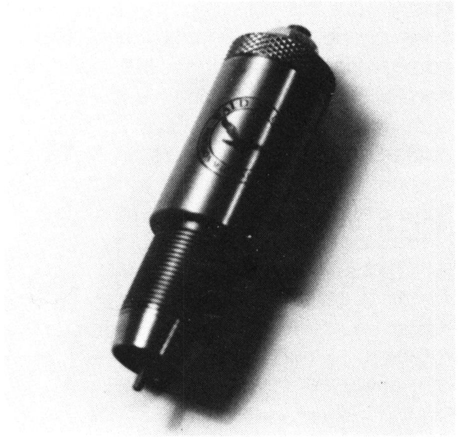
We also provide a wide range of gunsmithing services, including chambering and complete rifles.

7222 Dalton Fox Lake Road
No. Lawrence, Ohio 44666
(216) 683-4674

****

We often experience a change in impact when going from sighter to record target while group shooting, and the score shooter has the same sort of problem when going from target to target. In both cases there are a lot of changes taking place where the forearm and front sandbag have different amounts of contact. While on the sighter, for example, there may be somewhat more contact between forearm and sandbag than after the muzzle is raised to sight on the record target. At 200 yards with front and rear sandbags 28½ inches apart the change is 5½ degrees. The amount of contact between rifle and sandbag changes accordingly. Change of impact results.

Bill Gebhardt, of Bald Eagle Precision Machine Company, is always thinking about such things, and probably we should be grateful that he is. His ruminations in times past have resulted in the stands and sandbags that his company produces; from my point of view all his products work like a charm. To stop this point of impact changing he now offers a new model front sandbag which has a leather rib sewed across the front bag; this keeps the amount of contact between the forearm and front bag constant as the muzzle elevation is changed.



Bald Eagle die body

The bag has the same quality of workmanship as Bill's other bags. The new bag is supplied with a "bag former". Made of aluminum, it is placed on the top of the bag when not in use, and held in place with a rubber band. This keeps the sandbag in proper shape, regardless of any hard knocks received along the way. The same idea has been carried over to a new Hunter rifle front bag for the score shooters. Price is $20.00, plus shipping.

Another item that Bill now makes is a die body for neck sizing and depriming with the Lyman 310 tong tool. The die is nicely finished; so nice that the first little nick will make you feel like you did when your nice new car got its first scratch. It is made to be chambered by the customer (or his gunsmith). It was no trouble at all for me; I ran a PPC chambering reamer into the die, and that was that. The top cap is made to hold a Wilson sizing bushing in place. The die as is, without chambering, is $55.00. Chambered for the PPC the price is $75 .00, and supplied with a 310 tong tool the price is $100.00. All plus shipping. Made in the USA. Contact Bald Eagle Precision Machine Co., 101 Allison Street, Lock Haven, Pa. 17745 (717) 748-6772.

End

SPENCER & BRAWAND DRAW CROWD AT SUPER SHOOT XIX

John Gammuto

This year's Super Shoot, hosted by the Kelbly Family, saw a .25 caliber projectile capture the imagination of tournament participants.

Although Bill Brawand and Clay Spencer were certainly not the first to introduce this diameter projectile to this level of competition, they were the first to draw more than average attention to the caliber.

Homer Culver shot some rather noteworthy groups with his .25 Culver Dart at this same event several years ago. Earlier in the season, Harold Broughton challenged all comers at Louisiana's Crawfish Invitational with his own .25 caliber variation. Neither of them however made quite the splash that Spencer did at Super Shoot XIX. Bill Brawand was in the running for awhile but experienced some problems and faded from glory.

Brawand has garnered considerable .25 caliber experience in the short time he has been experimenting with the cartridge. When you share the line with Bill and his .25 you know there is someone on the bench next to you. If you let down for a second he's right there reminding you how groups are supposed to look.

Bill Brawand and a few friends from across the Canadian border, Vic Swindlehurst, Rob McCLennan, and Harold Reger put their heads together late in 1990 to inaugurate their .25 caliber project. Due to the nonavailability of quality jackets, Bill began bumping 6mm jackets up to .257″ diameter. This was of course accomplished with the tool and die making skills of Swindlehurst and the determination of Brawand. McClennan provided the barrel, Swindlehurst made the reamer and drilled the hole, Brawand and Swindlehurst both provided an assortment of bullets. On the test date, Harold Reger operated the chronograph and provided additional technical and moral support.

Unlike Clay Spencer, Bill Brawand wanted to start with a shortened up BR case. According to his calculations he felt that .090" short would be the best place to start. Swindlehurst and McClennan felt otherwise and wanted to go with the full length case. The theory being that they could always cut the chamber short and start again. Bill went with the .090" shortened version, sticking with his first instincts.

The joint American/Canadian team tried H-322 and GI-322 with limited success. The next powder they experimented with was Scott's 3032. It proved to be the most reliable in this specific application.

The team fired a variety of .25 caliber bullets on that first day, 63 to 72 grains. They even tried a few different ogives, 6 1/2 and 8S to be more specific. Everyone was very impressed with the initial results. A few days later Bill and Harold shot some 6 1/2 and 8 ogive 75 grain bullets to round out their experiments. The first groups they fired with the 75 grain bullets measured .156″, .321″, .243″, .202″, .307″, and .169″ respectively. The first 4 groups were 6 1/2 ogive, the last two were the 8's. It was reported that Reger could hardly believe his eyes when Bill shot 2 groups in the 1's.

When Brawand received the long anticipated J-4 jackets from Walt Berger he began making 78.5 grain projectiles. With the 78.5 grain bullet, Bill shoots 30.5 grains of 3032. It achieves a muzzle velocity 3200 f.p.s with a standard deviation of 6.6. The McClennan Barrel is a 1:13.5 twist, 23.5″ HV tapered variety mounted on a sleeved XP-100 Action, and bedded in a Adamovich stock. Bill is quite enthusiastic about the project now that he no longer finds it necessary to tinker with 6mm jackets. He calls his .25 caliber cartridge the .25 BMS, but I can't tell you what the "BMS" stands for. Knowing Bill as I do... it probably isn't printable anyway.

Going further back in history, few people know that Lou Palmisano, Ferris Pindell, and Fred Sinclair considered the .25 caliber prior to their success with the 6mm PPC Cartridge. They felt it was the way to go. Unfortunately, few others shared their optimism. As a consequence of that, quality jackets never became available. Things certainly would have been different today if they had only been able to generate a little more enthusiasm back then.

As is often the case, jacket availability determines the pace at which the accuracy clan moves. When abundant quantities of quality jackets are available many things happen, world records are challenged, wildcat development schemes are commonplace, and supply and demand peaks and valleys flatten out. The key to the .25 caliber project once again points to jacket availability. Had it not been for the cooperation of J-4 there would not have been as dramatic a result at this year's Super Shoot.

Another name that bears mentioning is that of bulletmaker Jef Fowler. Without Jef, Clay Spencer would not have been as prepared or enthusiastic as he appeared to be on the first day of competition. Fowler provided Clay with the very first batch of 85 grainers he produced with his new Simonson dies.

Spencer and Fowler, similar to Brawand and company, first discussed their .25 caliber project late in 1990. They felt they may have to blow out the Remington 6mm BR cartridge about .050″ to .060″ in order to accommodate the 85 grain tip, but opted to start out with an unmodified version to begin

Continued on page 47

LEMON'S SD
22 CALIBER
VLD BULLETS

70 SD	410 BC
75 SD	435 BC
80 SD	510 BC

$14.00 per 100

JLK BULLETS
5 Wood Duck Lane
Russellville, AR 72801
(501) 968-1022

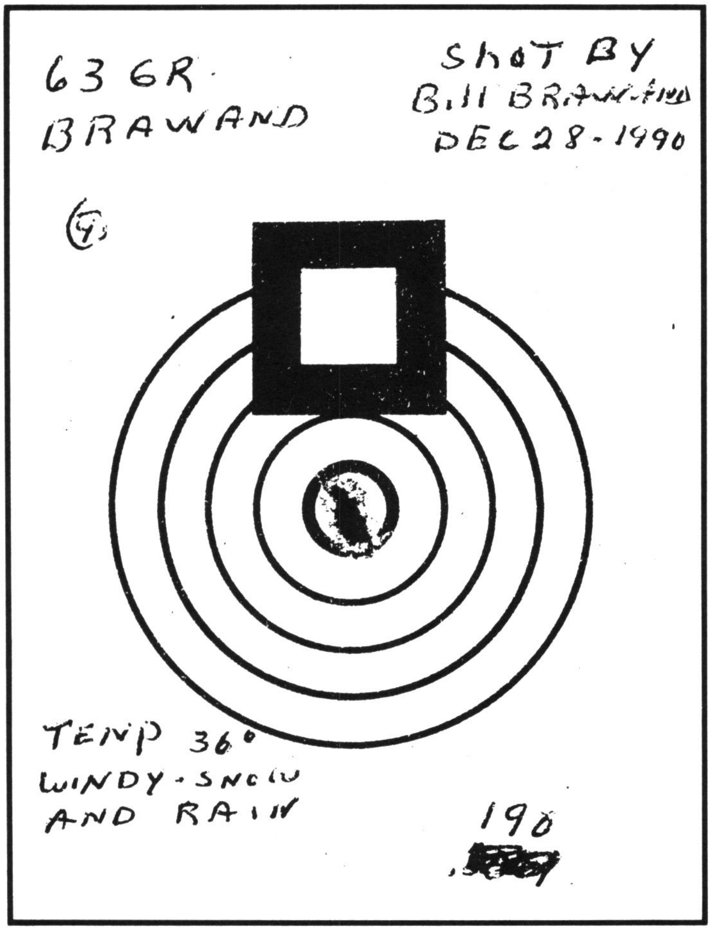
FRONT REST SIGHTER CAM — $50

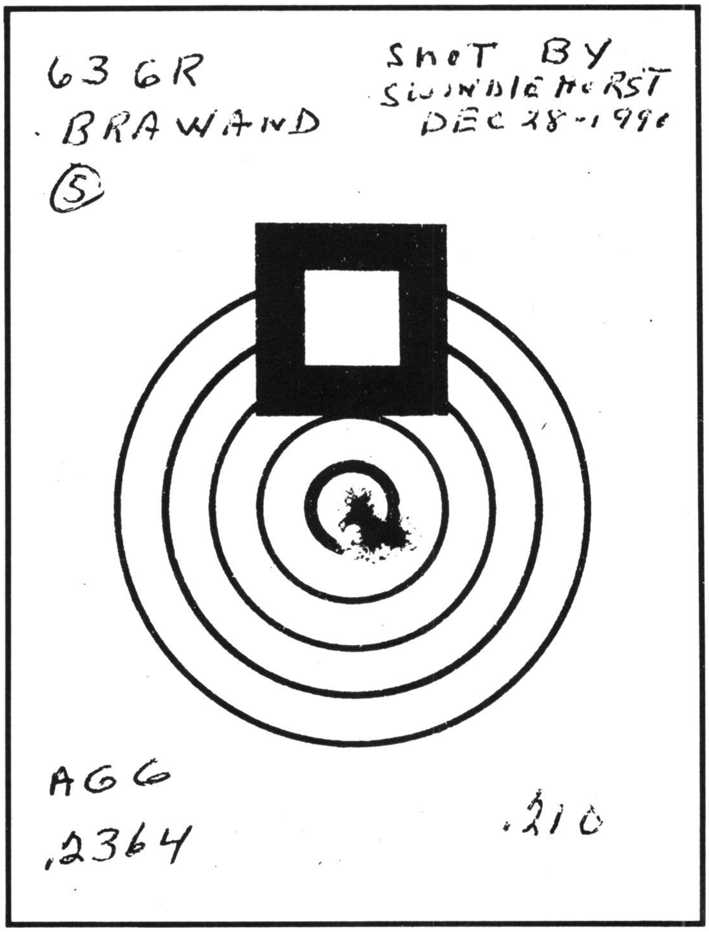
SHORT BR FORM DIE — $75

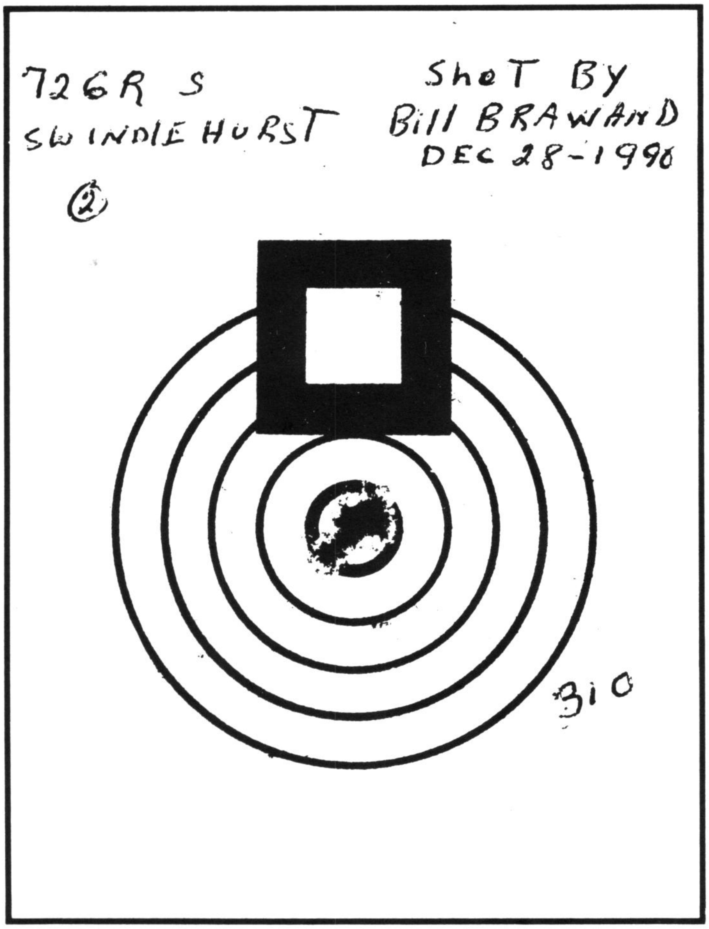
BARREL FLUTING — $50

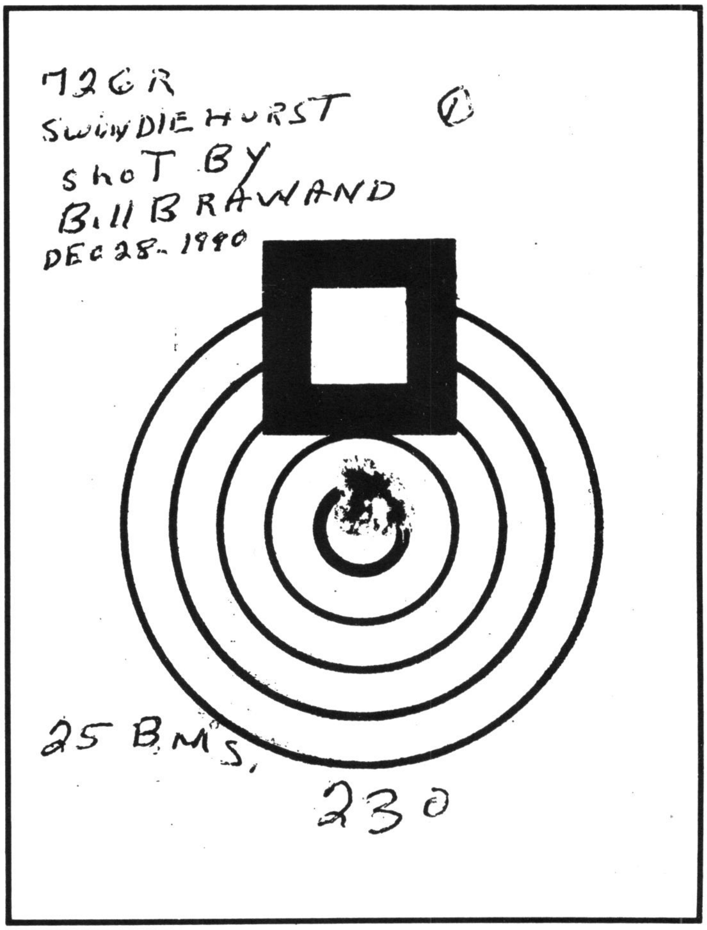
plus shipping costs

SKIP'S MACHINE
364 29 Road
Grand Junction, CO 81501
(303) 245-5417


63 GR
BRAWAND
ShoT BY
Bill BRAWAND
DEC 28-1990
④
TEMP 36°
WINDY-SNOW
AND RAIN
190
[redacted]


63 GR
BRAWAND
ShoT BY
SWINDIEHURST
DEC 28-1990
⑤
AGG
.2364
.210


72 GR S
SWINDIEHURST
ShoT BY
Bill BRAWAND
DEC 28-1990
②
310


72 GR
SWINDIEHURST
①
shoT BY
Bill BRAWAND
DEC 28-1990
25 BM'S.
230

SPENCER AND BRAWAND

Continued

their experiments. Lengthening or shortening the case to achieve optimum case capacity would be reassessed after preliminary testing. It was never their intention to replicate the highly successful PPC Cartridge.

Spencer's Super Shoot rifle was built on a Stolle Polar Action that had been shortened and glued into a McMillan fiberglas stock. It also had a state-of-the-art Jewell Trigger, Lilja fluted barrel, and was topped off with a Leupold-Stevens 36X target scope. The reamer was provided by the highly skilled folks at JGS Precision Tool. Several long and informed discussions took place with Keith Francis on the physical properties of the cutting tool. The reamer has an unusually long throat by most standards, when seated 90% of the bullet is outside of the case neck. Spencer felt this was the way to go, because it allows for a small margin of error with respect to case neck turning and facilitates increased powder capacity if required.

Clay Spencer, a highly skilled gunsmith, usually makes his own custom loading dies when he chambers a rifle, but time was at a premium this trip around. He had to cut a few corners to be ready in time for the Super Shoot. What he ended up doing was using a Wilson 6mm BR sizing die with a .273″ neck bushing. The neck diameter of the reamer is .277″ so he turned the case necks to a uniform wall thickness of .085″, and then purchased a Wilson .250 Savage Seating Die, cut it short, and ran the reamer into it. Dick Beebee at Redding made a special run of .25 BR full length dies to round out the required compliment of loading dies. Clay chambered the barrel to normal length with the special throat, seated the 85 grain bullets into the lands, and achieved better than average results. A couple of three shot groups measured in the zero's.

When Clay arrived in North Lawrence, Ohio things were different, of course! Conditions could best be described as erratic, but he started to work with it. Brad Rosenthol from Omaha, Nebraska took an immediate interest in Spencer's equipment of choice. Clay and Brad jointly came to the conclusion that something needed to change if the .25 was to have an impact at the tournament. Saturday thru Thursday, they spent every spare minute shooting, putting a total of about 600 85 grain bullets through the 1:14 twist barrel. Projectiles were cranked down range everywhere between 3000 and 3340 f.p.s. The 85 grain bullet showed a willingness to group in the neighborhood of 3000 f.p.s. The only problem being that it was a little too wind sensitive. This proved to be very disappointing.

Clay tried all of the traditional benchrest powders that were available to him, i.e., T322, H322, AA2015, 4895, 748, and God knows what else. (He may have even tried some of Peter "Rabbit" Callan's private label stuff for all I know.) Nothing seemed to get the job done... until he tried Billy Brawand's lighter 78 grain bullets and Brigadier 3032.

Clay's 200 yard targets with the 85 grain bullets were less than impressive. Wind drift really was a problem. The 78 grain Brawand bullets seemed to be cutting through the erratic conditions. The winning ticket at 100 yards was Brawand 78 grain bullets and 57 clicks of Brigadier 3032. Clay could only guess at the time that the velocity was somewhere in the neighborhood of 3050 to 3100 f.p.s. When he returned home he found the velocity to be 3075 to 3080 f.p.s.

Clay finished 3rd in the Heavy Varmint Class at 100 yards that day. His range aggregate was .2114″. Clay told me, after receiving his trophy, that he felt a better condition doper could have walked away with it all. His groups measured .210″ (warm up), .197″, .297″, .159″, .171″, and .233″ respectively. His performance fell off at 200 yards, but there again he attributed it to poor trigger pulling judgement rather than equipment. Ninth place in the Grand Aggregate was still a highly respectable place in the eyes of all that knew of Clay's initial problems.

When Clay returned home he immediately got on the phone with bulletmaker Jef Fowler and told him what had happened and detailed his success with the lighter weight Brawand bullet. Jef immediately went to work on forming up some new bullets for Clay to work with. They proved to be just as effective as those Bill Brawand had supplied him with.

Now that Clay has had some additional time to think and do a little more experimenting he is convinced that the lighter grain bullet is the way to go.

Clay told me recently that he believes that the .25 BR has promise. Everything being equal, he would give a slight edge to the .25 caliber bullet over its 6mm counterpart. Apparently, many others share his optimism, he has enough work in his shop to support the claim ... one of the jobs belongs to me.

If you haven't heard, Clay is now devoting 100 percent of his time to gunsmithing. He's recently moved into a new building, and is on his way to becoming one of game's premier gunsmiths. If you would like to speak with Clay on this or any other accuracy related topic, see his ad for information on how to contact him.

John J. Gammuto

Precision Reloading, Inc.
RELOADING PRODUCTS
Once Fired Brass * Primers
Nosler * Carroll * Sierra * Berger
Rubright * Redding * Muzzle Brakes
Loading Blocks * P.R. Bore Scopes
Case Trimmers * Trim Length Masters
Wilson * Mitutoyo * Hart * Neil Jones
Sinclair * K & M * Bald Eagle
Shooting Bags, Benches & Seats
Ransom * Port-A-Rest * Decker
Saunders * Oehler Chronographs
Multi-Dimensional Case Gauge
Gun Cases * Leatherman
Aluminum Funnels * VIP Bore Guides
P.R.Inc. Custom Cleaning Rods
Rig * Shooters Choice * Rusty Duck
Hoppes * Sweets * Ultra-Vibe Tumblers
Dewey * Sportsman Target Stamps
Sporting Clay Traps * Serengeti
Shotshells * Buffer * Wads * Powder
"Big Foot Goose Decoys"
FREE 44 PAGE CATALOG
PRECISION RELOADING, INC.
P.O. BOX 122
STAFFORD SPRINGS, CT 06076
1-800-223-0900 For Orders Only
(203) 684-7979 For Information
203-684-6788 24 Hour Fax

PRECISION SHOOTING SUBSCRIPTION

( ) Precision Shooting, one year — $22.00. Canada $24.00
( ) Precision Shooting, two years — $38.00. Canada $42.00
( ) Precision Shooting outside U.S. — $28.00 each year, or $46.00 air-mail

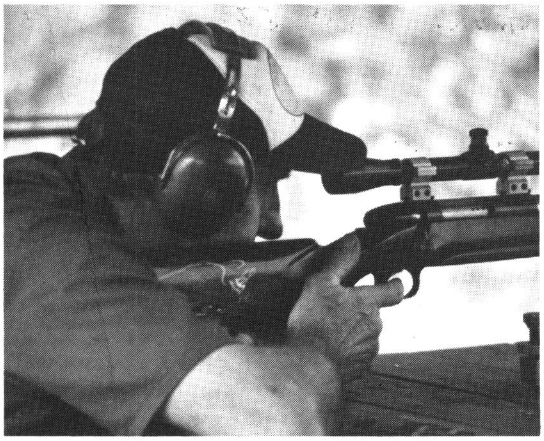
SUBSCRIPTION CHECKS NOT DRAWN ON AN AMERICAN BANK WILL BE RETURNED

( ) New ( ) Renewal

MAIL PRECISION SHOOTING MAGAZINE SUBSCRIPTION TO:
PRECISION SHOOTING, 5735 Sherwood Forest Drive, Akron, Ohio 44319
Make checks payable to Precision Shooting.

NAME__________
ADDRESS__________
CITY__________ STATE__________ ZIP__________

SEELY MASKER



BOLT CLEARANCE

There seems to be some misunderstanding regarding clearance between the bolt face and the breech end of barrel. I allow .003″ to .005″ here. I have had **one** complaint, with a cone bolt system, in regards to bolt touching barrel breech. This dimension is checked very carefully on all cone bolt systems and recorded, (I have a special gauge for this). If the bolt is closed and rotated without a fired case in the chamber, it is very possible that the bolt will show contact with the barrel breech. However, this is not the way to check this clearance. The best way to check is with a fired case in the chamber with the striker assembly removed. This is also a safe way to check head space correctly.

One gunsmith advocates "fit to touch" method. My only question is: touch how much and does it touch a little more on one side than the other? This is especially important with the cone breech system.

A word of advice regarding barrel work. It is always advisable to have the stock work done by the same gunsmith. You may have the barrel and action work done perfectly and still not have a shooter if the stock work was poorly done. In other words if the work was done by two people, which one do you blame?

TRIGGERS

How often do you clean your triggers? How careful are you not to get cleaning solvent into them? A good rod guide is absolutely necessary to prevent getting all kinds of crap and gum into them. A 2 oz. trigger, (Jewell's come set as low as 1.5 oz.) is a delicate instrument and will not work reliably if any solvent, oil, or dirt is allowed to enter the mechanism. Triggers should be flushed with lighter fluid periodically during a match. After the match, at-home removal of the trigger is advised for cleaning. A spray degreaser is a convenient way to flush and clean thoroughly, (be careful **not** to get this on paint). Also clean the trigger mortice in the stock. Triggers are comparatively easy to remove since the development of the trigger bracket such as those used in the Stolle, Hall and Wichita actions. Still if you don't feel confident to do this, ask a reputable benchrest gunsmith to remove the trigger and clean it thoroughly.

STUCK ROUNDS AGAIN!

If a loaded round becomes jammed or stuck and if it is possible to close the bolt, fire the round. However do not exert too much pressure trying to close the bolt. It may become jammed beyond the "point of not return" ie., bolt will not close and/or will not extract the round. If the round can be fired, then it is a simple matter to tap the case out with a cleaning rod, while lifting up on the bolt.

If a loaded round becomes jammed and will not extract, **DO NOT** under any circumstances try to drive it out with a cleaning rod. One person has already been killed using this method. I'm not sure that anyone knows exactly the reason or how this happened, but it did. So if anyone is confronted with this situation, I seriously suggest that they contact a gunsmith who has had some experience with the problem. Any way you get that case out involves a good amount of danger so take every precaution. We don't need any injured benchrest shooters. Also, the rifle can become damaged. If you are a "Rookie" (new shooter) and have any problems with which you are not familiar — stop — call another shooter or a gunsmith and one or the other, most likely, can offer a very simple solution and save you a lot of money and unhappiness.

The causes of most stuck rounds:

1. Load too hot, causing excessive expansion,
2. Case from another rifle chamber which was not full length sized,
3. Interchanging cases from one barrel to another as in switch barrel rifles or from once rifle to another even though both

SCHNEIDER BULLETS

22 CAL. — 52 GRAIN @ $9.50 per 100

6MM — 63, 65, 68, 70 GRAIN @ $10.50 per 100 BT or FB

30 CAL. 110 - 150 @ $15.50 per 100

All bullets made in carbide dies on selected jackets.

Shipping charges will be invoiced.

ROGER SCHNEIDER
3655 West 214th Street
Fairview Park, Ohio 44126
(216) 333-1581

COLIN BROWN
HIGH GRADE
HUNTING & TARGET RIFLES
BUILT TO YOUR SPECIFICATIONS

20 YEARS EXPERIENCE
ALL WORK GUARANTEED 100%

**LONG RANGE ELK RIFLES
OUR SPECIALTY**

Route 1, Box 670
Astoria, OR 97103
(503) 325-1249

IF YOU ARE IN NEED OF:

Precision Chamber Reamers
Quality Gauges
Special Gunsmith Tooling
HSS Drills, Taps, and other Cutting Tools
LARGE INVENTORY IN STOCK

Contact us for details:

JGS
Precision Tool Mfg.
1-503-267-4331
FAX: 1-503-267-5996

1141 S. Sumner Rd.
Coos Bay, OR 97420

chambers were done with the same reamer to same zero headspace.

4. A further problem which has become evident since the PPC American case introduction. These cases are larger in base dimension than the 220 Russian original PPC version, running at least .001″ larger in diameter. See Jim Borden's article on this in the April, '91 issue of *Precision Shooting.* I have a new reamer to accommodate the American brass.

My 7mm/08 reamer will not accept PMC brass, but does accept Remington, Winchester and Federal cases with no problem. My reamer is .468 base diameter at .150″ ahead of case head. The PMC case is .468 at same point — too damn close. Remington cases are .467″ at the same point. I only measured one Remington case and assume that there might be enough variation from one lot to another to cause problems. My thought on this . . . a target tolerance reamer for one case may not be target tolerance for another. Incidentally, Federal match .308 cases, (unfired measures .465) come out of my target tolerance chamber looking quite oversize or bulged at the base point. I suggest you use cases that match your chamber.

SAKO AMERICAN CASES

Yes, there is a variation in base diameter vs the .220 Russian case. But if you have one of Hugh Henriksen's fine reamers, don't give up. All is not lost. Just use a tapered, split, dowel and a bit of 320 grit wet or dry paper wrapped around it (bet I'll hear a lot of screaming on this one), and lap the base of the chamber about 30 to 60 seconds with the lathe set at high speed. I have a new reamer from JGS in 6PPC American. It's a good reamer and does the job. However, on my own chambers, I prefer to lap 'em. If my customers who were smart enough to stock up on the .220 Russian brass want the original chamber, I can do them. Any of my customers who want the 6PPC American chamber, please specify and I can supply the chamber of proper dimensions.

If any one wishes to try my lap-out method, set your barrel up in a lathe centered or normal. Take one of your sticky cases and push it in the chamber or tap it in. Try to pull it out with your thumb nail. Most likely you'll have to use a screw driver. About 30 to 60 seconds of lapping should be enough. Test fire one case 2,3,4 times and I think your problem will be resolved.

(The above is intended to help the new benchrest shooter. You old-timers of course know all of this).

LETTER TO THE EDITOR

Dear Dave:

At the risk of exposing my general ignorance, I wish to add to Mr. Salyer's SEE treatise:

Years ago, a genuine guru of the ammunition business laid the causes of SEE, in conversational terms, to approximately Mr. Salyer's causes, except that he maintained yet-unburned powder served as an additional plug when blown unburned into the neck of the case. This, he felt, explained the haphazard occurrence of the phenomenon — sometimes the powder plugs, sometimes it fizzles, depending on its situation and terrain.

I've quite forgotten which guru it was, but his credentials and comments were convincing and I thenceforth foreswore curiosity (and publication) on the subject.

All happy thoughts,

KEN WARNER
Editor-in-Chief
Gun Digest

RCBS ELECTRONIC SCALE
RE-ZERO
CAPACITY 500 gn × 0.1 gn

READ THIS SCALE FASTER THAN YOU READ THIS HEADLINE.

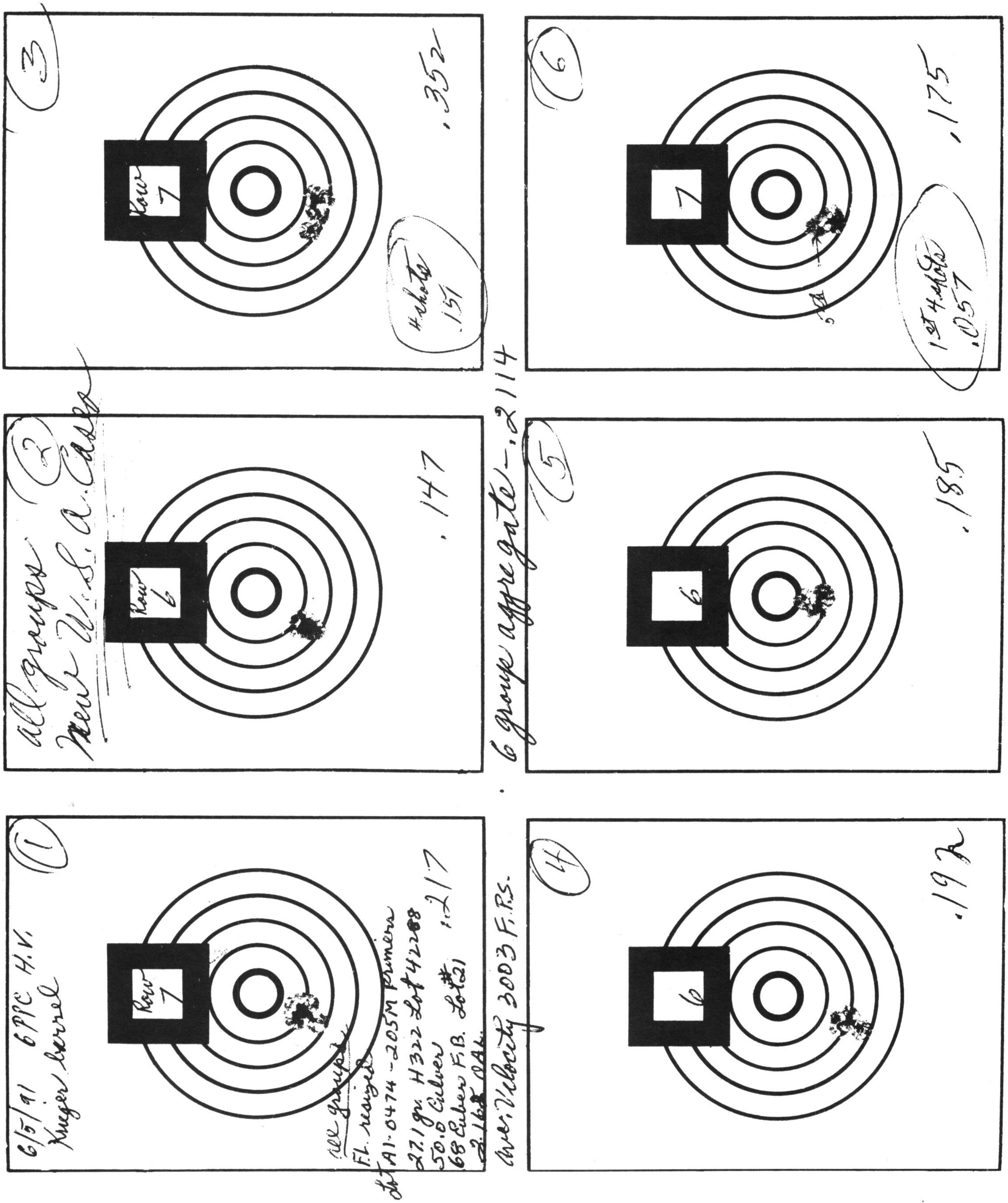
WEIGH POWDER OR CHECK FOR VOIDS IN CAST BULLETS FAST.

The new RCBS Electronic Scale is built for speed. Just put your powder or bullet in the pan, and the weight automatically appears on the digital display. It measures in grains, not grams, with accuracy to 1/10th grain. Use batteries or AC,* and re-zero with the touch of a button. In other words, you better see your RCBS dealer. Fast.

*AC adapter and battery pack included.

RCBS®
TO DO IT RIGHT.
CCI · SPEER · RCBS · OUTERS · WEAVER

© 1990 BLOUNT, INC., SPORTING EQUIPMENT DIVISION, P.O. BOX 856, LEWISTON, ID 83501. 1-800-533-5000.


1
6/5/91 6PPC H.V.
Krieger barrel
all groups
F.L. resized
Lot A1-0474 - 205M Primers
27.1 gr. H322 Lot 42288
50.0 Culver
68 Culver F.B. Lot #21
2.168 OAL
Row 7
.217
Ave. Velocity 3003 F.P.S.
2
all groups
New U.S.A. Cases
Row 6
.147
3
Row 7
.352
4 shots .151
6 group aggregate - .2114
4
6
.192
5
6
.185
6
7
.175
1st 4 shots .057

SAKO-USA TEST

by

Geza Nagy

The date was June 5th, 1991. The whole morning had consistently bright sunshine, with cloudless skies. The winds were out of the northeast, 10 to 25 miles per hour. This was mostly a tail wind at our range, with some variation in both direction and windage.

Starting around 2:00 pm big, fluffy white clouds began to roll in, with the winds diminishing somewhat. There was still a threat of showers in the forecast, so I decided to not put out my chronograph just yet.

This test was to be with the new version of the USA Sako cases. I had previously done some chronograph research with these cases, but accuracy had not been the focal point of that testing. Today we would focus on accuracy only.

The case capacity of the new brass is considerably less than the previous .220 Russian brass. I had several different lots of H322 powder with me to choose from. Previous chronograph work had shown these to turn up quite different velocities.

On a whim I decided to stick with the same lot (#42288) of H322 that I used in the morning in .220 Russian cases. This lot was made to government specifications, and was on the mild side, compared to some other lots that I had with me.

I had been shooting 51.5 clicks on the Culver measure in the morning with the .220 Russian cases; this load had shot pretty well in the wind. Now, in these USA Sako cases, 50.0 clicks would fill the case to the very top. What I did was tap each case lightly with a ballpoint pen a couple of times to settle the powder in the case before taking it away from the powder measure. This way the powder level would drop in the case to about where the bullet would be seated to. (I had to do the same thing in the morning, to keep the wind from blowing the powder out of the cases before seating a bullet).

I had twelve of these USA cases that I shot the targets with. I alternated the two rows of cases. I had two sighter cases. The fouler cases were .220 Russian.

It was 2:40 pm when I shot my first group, target #1. Temperature range for the test period was between 60 degrees and 68 degrees. It became overcast, and calm. Too calm; I was getting barrel mirage, and had to put on a paper shield after that group. A rain shower followed group #1.

I was shooting with a left to right breeze on target #3, and got caught in a let-up on one of the shots . . . thereby opening up a .151 group into a .352 group. After that group it calmed down again, and stayed overcast.

On the final target #6, the first four shots measured .057. The group was perfectly round before I fired the fifth shot.

The six group aggregate was .2114. The one errant shot on target #3 cost an aggregate that would have been .1778, discounting that one shot.

When I was done shooting the sun came out once again. While shooting the targets I had no idea what sort of velocity I was getting. I set up the chronograph just to see what the velocity was.

The load that I had been shooting in the morning, in the Krieger barrel averaged 3068 feet per second, using the .220 Russian cases with 28.1 grains of H322, lot #42288.

In the USA cases, in the afternoon 27.1 grains of H322, same lot of powder, chronographed 3003 feet per second average. The ProTach chronograph was set up ten feet from the muzzle.

It establishes (to me, anyway) that when the shooter has reasonably readable conditions out front of him (or her), at 100 yards, better aggregates are to be had with a velocity less than an approximate figure of 3050 feet per second.

— End —

OPTICAL SERVICES CO.

60% POWER INCREASE FOR AMERICAN MADE TARGET SCOPES, 75$, WEAVER T SCOPE BLUE PRINT 45$, T-6 REDIAPHRAM FOR PARALLAX CORRECTION AND INCREASED RESOLUTION (BLUE PRINT + 10$), IN-STOCK LEUPOLD AND WEAVER DOTS 45$, SPECIAL ORDER RETICLES 55$, CUSTOM WORK (CALL FOR QUOTE). WE BUY/SELL WEAVER T'S.

BILL ACKERMAN
10236 WOODWAY
EL PASO, TEXAS 79925
915 592-5338

THE FAIRCHANCE GUN CLUB

Smithfield, Pa. 15478

August 31 - Sept. 2, 1991
EASTERN REGIONAL CHAMPIONSHIPS

Saturday, August 31
9:00 AM — Unlimited, 100 yards
1:00 PM — Unlimited, 200 yards

Sunday, Sept. 1
9:00 AM — Heavy Varmint, 100 yards
1:00 PM — Light Varmint, 100 yards

Monday, Sept. 2
8:00 AM — Light Varmint, 200 yards
1:00 PM — Heavy Varmint, 200 yards

AWARDS
1st, 2nd, 3rd each yardage
1st, 2nd, 3rd, 4th, 5th Grand Agg.
1st, 2nd, 3rd, 4th, 5th Two Gun Agg
Small Group each yardage

Contact:
Roye Leckemby,
Rt. 2, Box 21, Smithfield, Pa. 15478
(412) 569-7973

Ray Goff,
P.O. Box, Point Marion, Pa. 15474
(412) 725-5794

MATCH GRADE 6MM BULLETS

by
Brian Rubright

- Made in carbide dies.
- Your choice of boat-tail or flat base styles.
- Choice of bullet weights; 62.5, 65.0, or 68 grains.
- $10.50 per hundred. Shipping charges will be invoiced.

BRIAN RUBRIGHT
1008 S. QUINCE ROAD
WALNUTPORT, PA. 18088
(215) 767-1339

SHOOTER'S NEWS & PRECISION SHOOTING INDEX OF ARTICLES

"THIS INDEX IS AN INVALUABLE TOOL FOR THOSE INDIVIDUALS LOOKING TO EXPAND THEIR KNOWLEDGE OF RIFLE ACCURACY AND RELATED TOPICS."

- 1947 TO PRESENT
- 3300+ ENTRIES
- 34 GENERAL TOPICS
- INDEXED BY AUTHOR, TOPIC, ISSUE DATE, AND PAGE NUMBER.
- $22 + $1 POSTAGE

JOHN J. GAMMUTO
5685 FOREST HILL DRIVE
CLARENDON HILL, IL 60514

HEAVY METAL

OR

THE 50 CALIBER EASTERN REGIONAL MATCH

by

Scott T. Harrold

A wise man once said; only a fool speaks on matters he is not thoroughly familiar with. Actually, I just made that saying up, but I'm sure at sometime or another a wise man did or will say it. Probably. At any rate, I'm about to speak (write) about a subject that I am not completely versed in. The reason I'm doing this is because I believe the subject deserves the recognition and also because no one else is going to do it if I don't. If this makes me a fool, so be it.

On May 25th and 26th of 1991, the Fifty Caliber Eastern Regional Shooting Match was held at the original PA 1,000 yard Benchrest Club, Inc., in Williamsport, Pennsylvania. Ten shooters from nine different states competed in the match. That's right, I said nine different states. They came from Pennsylvania, New York, Vermont, Massachusetts, Maryland, Missouri, Kentucky, North Dakota, and believe it or not, Texas. Amazingly, all of the shooters drove to Williamsport! Obviously fifty caliber shooters are tough, sadistic or both. In any event, these ten gentlemen came prepared to shoot and that is exactly what they did.

Despite atmospheric conditions that could only be described as fair, a new fifty caliber shooter's association record was set at the match. A brother in arms by the name of Art Guidi fired the new five shot small group record with an impressive 7

Eric Williams at work with his 50 BMG Improved.

Bruce Seiler with his anti-tank gun.

TOOLEY CUSTOM RIFLES

Specializing in Accuracy Equipment

NEW

.30 CALIBER BULLETS
125, 135, and 150 grain
Made in Rorschach Dies
$17.50 per hundred plus shipping
(include sufficient postage — overages will be refunded)

516 Creek Meadow Drive
Gastonia, NC 28054
(704) 864-7525

RAIL MACHINE RESTS

Hall Style, one piece base, made with hardened stainless steel, and aluminum. Adjustable sighter cam. $1500, plus shipping.

BUD WELSH
80 New Road, East Amherst, N.Y. 14051
(716) 688-6344 (before 2:00 pm)

JEWELL TRIGGERS

LIGHT PULL TRIGGERS
1.6 to 5.0 ounces

HUNTING — VARMINT TRIGGERS
1.6 ounces to 5 pounds

Both with, or without, safeties

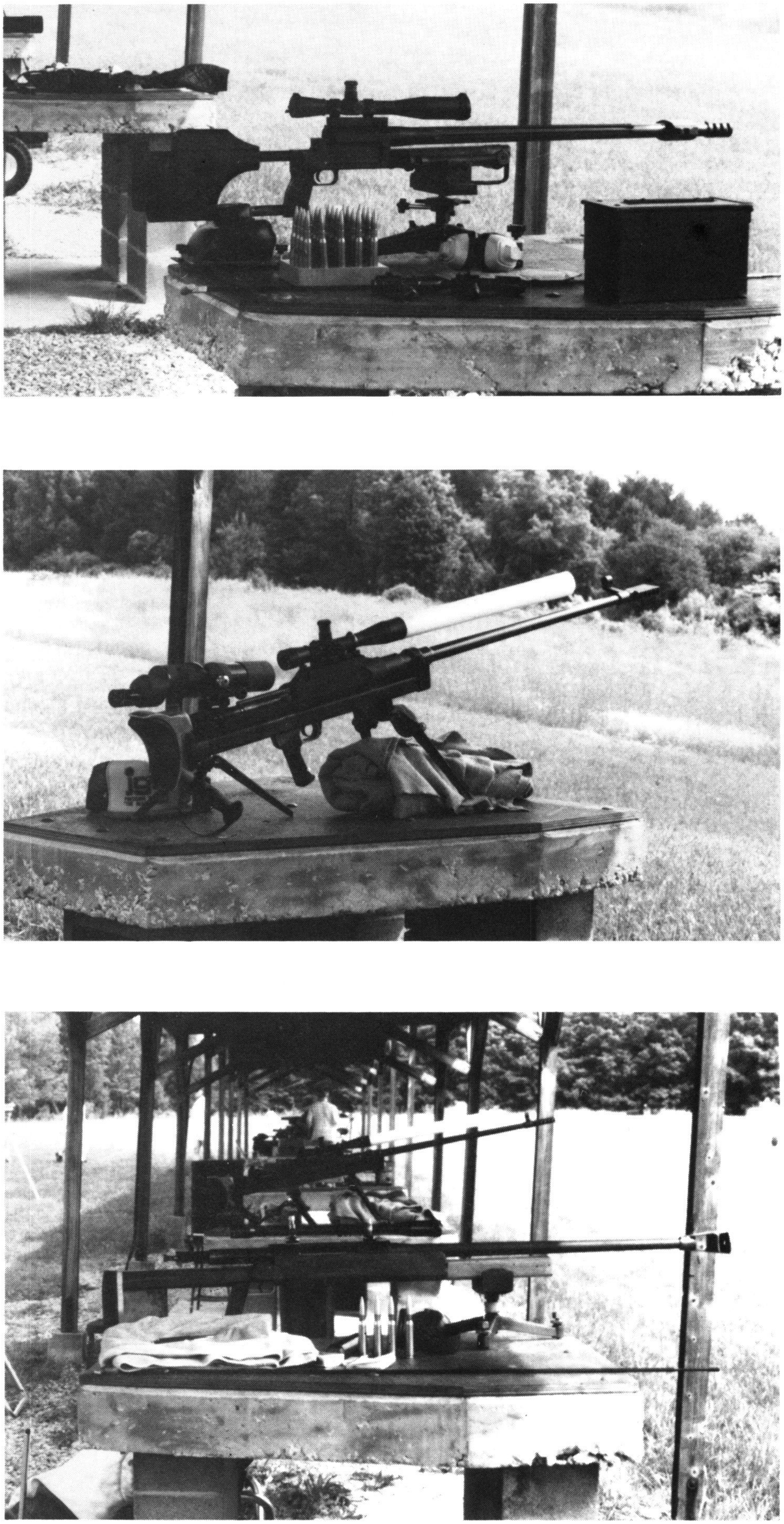
ARNOLD JEWELL
1922 Louann Drive
New Braunfels, Texas 78130
(512) 620-0971

3/16 inch group. Not far behind Mr. Guidi was Bruce Seiler with a 7 3/8 inch group and also an 8 3/4 inch group. All three of these small groups surpassed the long standing previous record of 9.31 inches fired in 1986 by Eric Williams. Speaking of Eric Williams, even though he lost his long held small group record he still managed to win the overall shoot with a 25 shot aggregate of 12.26 inches and an overall score of 40.6. Second place overall went to Bruce Seiler with a 12.75 inch 25 shot aggregate and a score of 38.2. Mr. Seiler also holds the current 25 shot aggregate record with an 11.52 inch group that he fired in 1990. The trophy for the official shot closest to dead center went to Mr. Dick Fisher for placing one of his bullets exactly an inch away from x-ring perfection. The big bullet trophy (see picture) for the fun shot closest to center went to Eric Williams when he shot the insane Hussein target in the shoulder, missing dead center by 7 1/8 inches.

The course of fire the fifty caliber shooters follow is very different from the way shooting matches are normally conducted at Williamsport. The big fifty shooters fire six 5-shot groups over the span of two days (three groups are fired each day). Then, each shooter is permitted to throw out his worst group and his overall aggregate and score are figured from the remaining five groups. Also, the fifty caliber shooters are allowed to have spotters calling their shots for them during the match. The time limits used by the muzzle brake tribe are also different than those used by the regular Williamsport crowd. The fifty caliber shooters allot three minutes at the beginning of each relay to fire their sighter shots. (Time extension are given if a shooter is having trouble getting on the target.) Then, the record targets are raised and the shooters have ten minutes to fire their five record shots. (Normally at Williamsport you have ten minutes to fire ten record shots.) Although these differences between the two groups of shooters are relatively minor, I do think it would be interesting to see the fifty caliber people and

Continued on next page

RAIHA
HAND PRIMING TOOL
uses RCBS type
shellholders.
Adjustable for
priming depth.
4.5 inches long.
Quality materials.
Write for literature:
Pend Oreille Sport Shop
3100 Highway 200 East
Sandpoint, Idaho 83864
(208) 263-2412

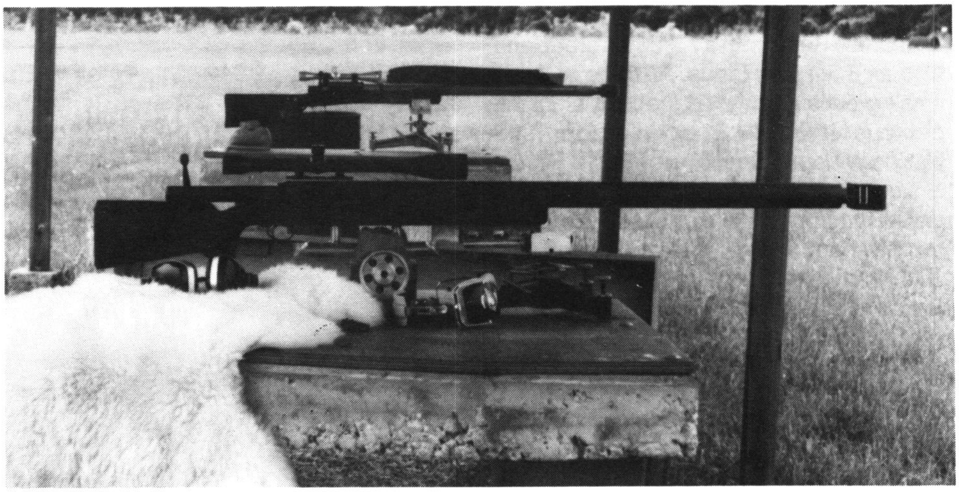


Some 50 cal. cannons.

HEAVY METAL
Continued

the Williamsport hotshots compete on equal footing.

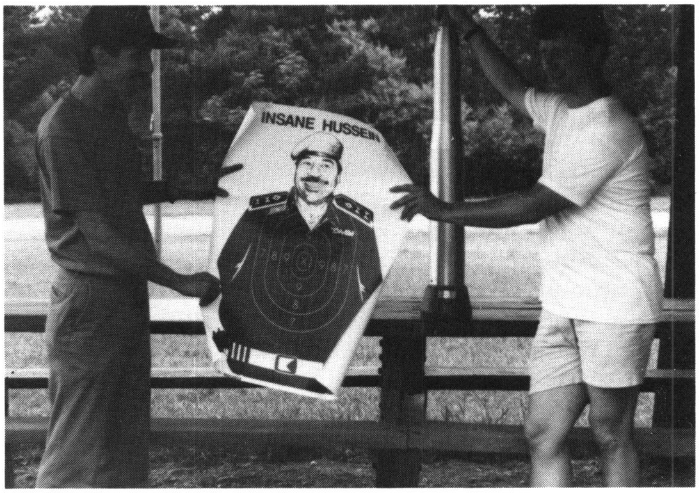
On Sunday afternoon, after the match was over, I had a chance to talk to Eric Williams about his gun (he even let me shoot it) and the 50 BMG cartridge in general. Mr. Williams is the assistant editor of the Fifty Caliber Shooters Association and is quite knowledgeable about 50 caliber shooting on the whole. I, on the other hand, know very little about the 50 caliber, so if I mess something up, forgive me. (I used to think BMG stood for Big Mean Gun; now after shooting one, I "know" it does.)


Art Guidi's and Eric William's crow dusters.

Mr. Williams 50 caliber benchgun was built by H-S Precision, Inc. The gun's barrel is a fluted H-S Precision Barrel with a 1-18 twist and eight grooves. The barrel is 34 inches long (without the brake) and is mated to a McMillan M87 action. The muzzle brake is also made by McMillan. All of this heavy metal is bolted into a Six Enterprise BR style stock. The trigger is a Canjar light pull that is set at six ounces. The rifle wears a standard off the shelf silver Leupold BR-36 scope with a crosshair reticle.

The rifle is chambered for the 50 BMG improved case. This is the basic BMG case blown-out with a 40° shoulder angle. The cases are Israeli military brass and are of very high quality. Mr. Williams does all of the normal benchrest brass preparation steps to these cases. (Primer pocket uniforming, flashhole uniforming, etc.) He uses RWS primers to ignite enormous amounts (about a half a can) of super slow burning T-570 powder. The bullet he uses is a 750 grain spitzer boattail made by Thunderbird Cartridge Co., Inc. (The overall loaded length of the cartridge is 5.54 inches.) This bullet leaves the muzzle at over 2,920 feet per second. This bullet has a ballistics coefficient of .820 and at 1,000 yards it is still traveling at over 1,945 feet per second. The remaining energy at 100 yards is over 13,000 ft-lbs.! Man, oh man, what a cannon. I'm going to have to get myself one of these babies, and when I do the groundhogs had better look out!

Art Guidi accepting small group trophy (left).



Eric Williams and his Big Bullet Assassin trophy (right).

RORSCHACH
CARBIDE DIES

$1.00 for brochure

Rorschach Precision Products
Box 151613
Irving, Tx. 75015

DAVIDSON PRODUCTS FOR SHOOTERS

Action sleeves, barrel changers, bolt plugs.
Bases for Kelbly rings, seating depth checkers.

Send for brochure of these and other items.

A.L. DAVIDSON
2020 Huntington Dr.
Las Cruces, N.M. 88001

AIR GAGE BARRELS

FOR CLOSEST TOLERANCE — In "Chrome-Moly" and Stainless Steel. All calibers up to 458 Winchester. Blanks or Finished Turned in standard or target tolerance chambers.

Ask for free data on all our services.
DISCOUNTS TO GUNSMITHS.

Write to
DOUGLAS BARRELS, INC.
5504 Big Tyler Road
Charleston, West Virginia 25312

```
.50 BMG IMPROVED

BULLET WEIGHT (GRS):750
STD. BALLISTICS COEFF. (C1):.82
GUN ALTITUDE (FT):1000
TEMPERATURE (DEG-F):75

MUZZLE VELOCITY (FPS):                  2920
RANGE (YARDS):                          100
REMAINING VELOCITY (FPS):               2812
REMAINING ENERGY (FT-LBS):              13171
BULLET MOMENTUM (LB-SEC):               9.366
TIME OF FLIGHT (SEC):                   .105
TOTAL DROP (INCHES):                    2.1
MAX HEIGHT ABOVE SIGHT LINE (IN):       0
ELEVATION REQUIRED (MOA):               4.2
DEFL. 10MPH CROSSWIND (MOA):            .3

RANGE    VEL    BULLET PATH      10MPH WIND
YARDS    FPS    MOA    INCHES       MOA

50       2866   -1.2     -.6        .1
100      2812   0        0          .3
150      2760   -.3      -.5        .5
200      2707   -1       -2.1       .7
250      2656   -1.9     -5         .9
300      2605   -2.9     -9         1
350      2554   -3.9     -14.3      1.2
400      2504   -5       -20.9      1.4
450      2455   -6.1     -28.9      1.6
500      2406   -7.3     -38.3      1.7
550      2358   -8.6     -49.3      1.9
600      2310   -9.8     -61.8      2.1
650      2263   -11.2    -76.1      2.4
700      2217   -12.6    -92        2.6
750      2171   -14      -109.8     2.8
800      2125   -15.4    -129.3     3
850      2080   -16.9    -150.7     3.2
900      2036   -18.5    -173.9     3.4
950      1992   -20.1    -199.7     3.7
1000     1948   -21.7    -226.7     3.9
1050     1905   -23.3    -256.2     4.1
```

Preparing Bullet Alloys

Adding Antimony to cast bullet alloys has always been a chore. Antimony won't melt until heated above 1,167 degrees F. This temperature is beyond the range of most electric melting pots used by bullet casters. Improvised melting at such high temperatures can be very dangerous especially the toxic fume hazard.

A company called "Leading Edge Tool Service" is marketing a special flux which will cause pulverized Antimony to go into solution with lead alloy at 750 degrees F.

I like to prepare my own alloys and their flux has worked perfectly. Other interested shooters may contact "Leading Edge Tool Service" at Rt. #2, Box 108AA, Palmyra, MO Zip 63461. They also are a source for Antimony and Tin.

Yours truly,
Steven Dzupin
39 Lyle Court
Wayne, N.J. 07470

Man, Martha, those targets sure are a fur piece away.

4-92
PEACE GARDEN STATE
CENTENNIAL
CAL 50
1889 NORTH DAKOTA 1989

Some folks will come a heck of a ways just to pop a primer.

REM XP-100 BOOK!
SHOOTERS! Do you own a modified XP-100?
GUNSMITHS! Do you modify XP-100 handguns or build rifles on this action?
MANUFACTURERS! Do you have products for the XP-100?

A complete book dealing exclusively with modified Remington XP-100 pistols and XP-actioned rifles is in production now. If you would like to be included (no obligations), write for full details today.

Bud Lang - (NRA Endowment Member)
4141 Casa Loma Ave. Dept PS
Yorba Linda, CA 92686
(714) 996-8735

Kowa
O. K. WEBER, INC.
P.O. Box 7485, Eugene, OR 97401
Phone: (503) 747-0458
24 HR. FAX (503) 747-5927

PRECISION SHOOTING / SINCLAIR POSTAL MATCH #1

Class	Score	Last	First	Cartridge	Action Mfg	Barrel Mfg	Scope Power	Scope Mfg
Hvy Custom	50-5X	Heil	Louis	6PPC	Stolle	Hart	36X	Leupold
	50-5X	Zuchowski	Gerald	6PPC	Whichita	Hart	36X	Leupold
	50-4X	Baker	Carl	6PPC	CPS	Hart	36X	Leupold
	50-4X	Crosson	Allen	6mm Wasp	P.A.S.	Hart	36X	Leupold
	50-4X	Klerk de Reus	Ron	6PPC	Stolle	Hart	36X	Leupold
	50-4X	McQuisten	Richard	6PPC	Wichita	Atkinson	40X	Lym/Siebert
	50-4X	Sperry	Kenneth	222	Wichita	Hart	25X	Lym/Seibert
	50-4X	Sperry	Kenneth	6PPC	Rem 700	Shilen	25X	Lym/Seibert
	50-4X	Stingl	Gary	222X35	Rem 40X	Hart	36X	Leupold
	50-3X	Barbettini	Elmer	6PPC	Slv XP100	Shilen	36X	Leupold
	50-3X	King	Greg	6PPC	Rem 40XBBR	Schneider	24X	Leupold
	50-3X	McQuisten	Richard	30-30 X 1.5	Miller S/S	Douglas	20X	Unertl
	50-3X	Sperry	Kenneth	308 Win	Rem 700	Hart	6-18X	Burris
	50-2x	Bodeau	Paul	22PPC	Rem	Schneider	16X	Lyman
	50-2X	Duguag	Hermel	222X35	Rem 40XBBR	Hart	6-24X	B & L
	50-2X	Laxon	Charles	22PPC	Rem 700	Rem	6.5-20X	Leupold
	50-2X	Smith	Graeme	6PPC	Rem	Maddco	36X	Leupold
	50-1X	Gustafson	Curt	222 Mag	Rem 700	Schneider	24X	Leupold
	50-1X	Tscoepe	James	6X47	Rem 40X	Hart	20	Lyman
	50	Yerian	Ronald	225 Win	Win H/W	??	20X	Lyman
	49-2X	Bodjanac	Rob	220 Swift	Ruger	McGowan	20X	Leupold
	49-2X	Harris	Donald	222	Anschutz	Maddco	16X	Weaver
	49	Gordon	Harry	6BR	Rem 40X	Hart	36X	Leupold
	49	Sammons	Phillip	6 PPC	Shilen	Shilen	36X	Leupold
	48-3X	Smith	Dave	222	Rem 40X	Rem	36X	B & L
	48	Ramthum	Jim	222	Rem	Rem	36X	Leupold
	46-1X	Christensen	Leroy	22-250	Rem 700	Shilen	6.5X20X	Leupold
	45	Sinclair	Hite	6 X 250	Rem 788	Hart	4-12X	Bushnell
	40	Disch	Lou	6PPC	Rem	Hart	24X	Leupold
Hvy Factory	50-5X	Owen	Ivan	6PPC	Sako	Sako	24X	Leupold
	50-3X	Doyle	Mike	308	Rem 40X	Rem	12X	Leupold
	50-2X	Latray	Rick	222	Rem 700	Rem	24X	Leupold
	50-1X	Gustafson	Curt	6mm Rem	Rem 40X	Rem	36X	Leupold
	50-1X	Kraus	William	223	Rem	Rem	15X	Lyman
	49-2X	Crisman	John	7-08	Rem 700	Rem	6-24X	B & L
	49-2X	Sanders	John	220 Swift	Sav 112V	Sav	6.5-20X	Leupold
	49-1X	Rue	Wayne	6PPC	Sako	Sako	36X	Leupold
	48-2X	Calhoun	Larry	223	Rem	Rem	36X	Leupold
	48	DeVore	Jeff	308 Win	Rem 700	Rem	10X	Zeiss
	47-1X	Smith	Will	243 Win	Rem	Rem	12X	Leupold
	46	Foster	Norman	222 Rem	Sako	Sako	6.5 X 20	Leupold
	46	Nicol	Richard	6PPC	Sako	Sako	36X	Leupold
	44	Horst	Kurt	222	Sako	Sako	10X	Unertl
	41	Hopper	Marvin	222	Rem 700	Rem	16X	Bushnell
Lgt Factory	50-2X	Owen	Ivan	30-06	Steyr	Steyr	3-12X	Swarovsky
	48-1X	Crisman	John	308	Rem 788	Rem	4X	Weaver
	47	Helmcamp	Leonard	280	Rem 700	Rem	3.5-10X	Leupold
	45	Doyle	Mike	222 Mag	Rem 700	Rem	8X	B & L
	45	Forcher	Antone	308 Win	Rem 700	Rem	12X	Leupold
	43	Sinclair	Fred	22-250	A-Bolt	Browning	15X	Weaver
	42	Doyle	Mike	257 Rob	Ruger 77	Ruger	6X	Leupold
	41	Strange	John	30-06	Rem 700	Rem	2.5-7X	Leupold
Pistol	50-1X	Smith	Ron	6PPC	XP-100	Lilja	36X	Leupold
	50	Shinogle	Allan	6 X 30-30	T/C Cont	Bullberry	10X	Burris
	48-1X	Honadel	Ole	25 Ugalde	Sako AI	Matco	12X	Burris
	45-1X	Strange	John	223	T/C	T/C	2.5-7X	T/C

PRECISION SHOOTING / SINCLAIR POSTAL MATCH #1

Last	First	Cartridge	Bullet Mfg	Bullet Wt	Power Mfg	Power Chg	Case Mfg	Primer Mfg
Baker	Carl	6PPC	Kern	68	AA 2015	26.5	220 Rus	205M
Barbettini	Elmer	6PPC	Berger	68	T 32	27.6	220 Rus	205M
Bodeau	Paul	22PPC	Berger	52	H 322	27.5	Sako	205M
Bodjanac	Rob	220 Swift	GBT	52	H 380	38.1	W/W	210
Calhoun	Larry	223	Sierra	52	IMR 3031	24.0	Fed	205M
Christensen	Leroy	22-250	Sierra	55	IMR 4064	35.0	R-P	210M
Crisman	John	308	Speer	168	IMR 4895	41.0	R-P	210M
Crisman	John	7-08	Sierra	150	IMR 4350	44.5	Fed	210M
Crosson	Allen	6mm Wasp	Hollister	68	WW 748	30.0	PMC	210M
DeVore	Jeff	308 Win	Hornady	168M	H 322	36.0	LC	210M
Disch	Lou	6PPC	Rem	75	322	27.9	Sako	CCI BR
Doyle	Mike	222 Mag	Sierra	52	H 322	26.0	R-P	7 1/2
Doyle	Mike	257 Rob	Nosler	100	H 205	46.0	R-P	9 1/2
Doyle	Mike	308	Sierra	168	H 4895	41.0	Rem	CCI M
Duguag	Hermel	222X35	Berger	52	H 322	23.7	PMC	205
Forcher	Antone	308 Win	Sierra	168	IMR 4064	44.0	W/W	210
Foster	Norman	222 Rem	GTB	52	WW 748	25.4	Fed Match	205M
Gordon	Harry	6BR	Fowler	66	H 322	28.5	R-P	205M
Gustafson	Curt	222 Mag	Hornady	50 SX	AA 2015	27.5	Rem	205
Gustafson	Curt	6mm Rem	Berger	68	IMR 4350	47.5	Fed	210M
Harris	Donald	222	Sierra	52	4198	19.5	Sako	W/W
Heil	Louis	6PPC	???	68	H 322	26.8	Sako	Fed
Helmcamp	Leonard	280	Nosler	140	IMR 4350	53.5	R-P	210M
Honadel	Ole	25 Ugalde	Sierra	75	IMR 4198	26.0	Fed	7 1/2
Hopper	Marvin	222	Sierra	52	IMR 4198	19.5	Fed	CCI BR4
Horst	Kurt	222	Sierra	52	BLC-2	24.5	W/W	7 1/2
King	Greg	6PPC	Berger	62	AA 2015	26.3	Sako USA	205M
Klerk de Reus	Ron	6PPC	GTB	68	H 322	26.4	PPC USA	205M
Kraus	William	223	Nosler	52	H 322	23.0	W/W	205M
Latray	Rick	222	Sierra	53	H 335	24.0	Fed	205M
Laxon	Charles	22PPC	Berger	52	H 322	26.5	Sako	7 1/2
McQuisten	Richard	30-30 X 1.5	Cast	188	AA #9S	10.7	30 Amer	7 1/2
McQuisten	Richard	6PPC	Tucker	63	AA 2015	27.6	220 Rus	205M
Nicol	Richard	6PPC	Berger	62	AA 2015	25.0	Sako	205M
Owen	Ivan	30-06	Sierra	168	4064	50.0	Fed	210M
Owen	Ivan	6PPC	Own	68	H 322	27.5	Sako	205M
Ramthum	Jim	222	Berger	52	IMR 4198	19.5	Fed	205M
Rue	Wayne	6PPC	Nosler	70	H 322	26.2	Sako	205M
Sammons	Phillip	6 PPC	Braconi	65	H 322	27.0	Sako	RWS
Sanders	John	220 Swift	Berger	52	RL 12	35.5	Norma	210M
Shinogle	Allan	6 X 30-30	Sierra	90	SCT 3032	30.0	30 Amer	CCI-BR
Sinclair	Fred	22-250	Nosler	55	H 4895	34.0	R-P	9 1/2
Sinclair	Hite	6 X 250	Fifer	70	H 4895	34.0	R/P	210
Smith	Dave	222	Berger	53	4198	20.5	Fed	205M
Smith	Graeme	6PPC	Berger	68	AR 2207	24.8	Sako	205M
Smith	Ron	6PPC	K&K	65	AA 2015	27.0	PPC USA	7 1/2
Smith	Will	243 Win	Sierra	75	IMR 4350	43.0	W/W	Win
Sperry	Kenneth	222	CJT	45	4895	23.0	Rem	205m
Sperry	Kenneth	308 Win	CJT	165	4895	40.5	RWS	210
Sperry	Kenneth	6PPC	CJT	67	4895	27.2	Sako USA	205
Stingl	Gary	222X35	Berger	52	T 32	22.5	Norma	205M
Strange	John	223	Berger	52	AA 2230	26.1	W/W	205M
Strange	John	30-06	Nosler	150	IMR 4064	---	W/W	210M
Tscoepe	James	6X47	Gonzales	62	WW 748	28.3	Rem	7 1/2
Yerian	Ronald	225 Win	GTB	52	H 335	32.5	W/W	CCI
Zuchowski	Gerald	6PPC	Watson	68	AA 2015	27.2	Sako	205M

TRADING POST

One man's "Junk" is another man's "Collector's Item!" Turn your surplus items into cash with a Trading Post ad. ORDER FROM ASSISTANT EDITOR JOHN GAMMUTO.

Groups of figures, abbreviations and initials count as words. Hyphenated word counts as two words. Name and address of advertiser is counted. Use full words instead of initials and abbreviations and make your meaning entirely clear.

Classified type ads: no display. **Rates:** 15 cents per word per insertion, prepaid. Minimum charge is $1.50. Closing date for ads is the 1st of the month preceding publication. To illustrate: we must have your ad copy in hand by August 1st to make the September issue.

Varmint Rifles: Remington 722 chambered in 6mm Rem., Shilen barrel, Six Enterprises Police Sniper Stock, dies, 200 loaded rounds, excellent shooter, all work by Ed and Doug Shilen, less than 150 rounds through barrel, $450 postage paid. John Gammuto, (312) 269-8701 days.

Priming Tools: Old horizontal plane Hart Priming Tool with PPC & .222 shell holders, functional piece of benchrest history, $60. K&M Priming Tool with dial indicator for uniform primer depth control, $70. John Gammuto, (312) 269-8701 days.

Hasecuster Unlimited Class Rail Gun, Schneider Barrel, 6mm Talldog, aluminum base, top, barrel block, and scope mount, Kelbly Rings, Remington Action. Excellent piece of equipment, has won many plaques, $1700, freight paid. John Gammuto, (312) 269-8701.

Remington XP-100 Rifle, .22 Waldog, wood stock, $500. Remington XP-100 Rifle .222x35, Lilja Barrel, fiberglas stock, target mounts, light pull trigger, $550. Jay (218) 326-3003 central time 9-5.

Wanted: Precision Shooting Magazines from 1976 through 1989, set or individual years. Reasonable request, please! Write Peter Smith, 851 N. Providence Rd., Media, PA 19063.

.220 Russian Brass, 25 new cases, Best Offer, 24 hour answering service, (303) 666-2312.

Must Sell new bench rifle, Hall Medium Action, LV, 6PPC, Hall Stock painted black metallic, C&S Barrel, Jewell Trigger, smithed by Ed Bell, $1100, (216) 477-1749.

Burris Hunter Benchrest 6x, fine plex, list $262.95, your cost $155.95. 6XHBR, .375 Dot, list $275, your cost $162.95, parallax adjustment, target knobs, 1/8 minute clicks, weighs 13 ozs., $5.00 shipping & handling per order. Complete line of Burris Products. Send $1.00 catalog/prices. Bill Daley, Box 8, Evans, Colorado 80620, (303) 356-0015 eves.

Sako 22/250, Forster Deluxe High Polish Blue, French Walnut Stock, Skip Line Checkering, Coca-Bola forend, inlaid pistol grip cap, engraved floor plate topped with Bausch & Lomb 3x9 Scope, Buehler Mounts, Harris bi-pod, Brownell latigo sling, 60 rounds of new brass, Wilson Hand Dies, $900. Sako/Forster .243 Standard Grade topped with Leupold 4x12 Scope, Sako Mounts, 60 rounds new brass, Wilson Hand Dies, $700. Both Guns are in mint condition, need money to build benchrest rifle. Call Ed at (216) 454-3539.

Fouls Out electrochemical bore cleaner, used 3 times, $140. Stuart Sight-vise, $40. Call Roger (301) 931-2014 mornings.

.308 Remington 40X repeater, Heavy Stainless barrel, original factory configuration, unaltered. Complete outfit with forend stop, sling, Redfield Olympic sights, and scope blocks, 95% condition, low mileage, $850, call Dick (612) 571-9668.

10 boxes (200 rounds) of new Norma unprimed brass, .222 caliber, $37.50. New unfired Remington 788, .222 Remington, in box, 24″ barrel, $235. New Hart 2 oz. Trigger, $85. Remington/Saunders Trigger, $40. Remington 541-T in original box, no dings in or out, has bases and an extra magazine, $230. Remington 788, .243 Winchester with extras. Contact Glynn Paulson, P.O. 85, Clermont, IA 52135-0085.

Rifle Rests, bags, powder measures, loading tools, unprimed brass, and more. Send SASE for list and prices to: Vandenberg Schuetzen Supply, 2410 25th Street, Columbus, NE 68601.

Kimber Ultra Varmint Single Shot 645 (6mm/.223), Kimber Rings and bases, RCBS three die set, brass and factory box. Very limited production, excellent condition, $850; with extra custom .17 Mach IV Shilen Stainless Barrel, $1000. Would consider trade for Sako PPC Single Shot or XP-100. Todd Kindler (216) 862-3923.

Wanted: XP-100 and custom made bolt .222 head size for XP-100. Todd Kindler (216) 862-3923.

Gun Digests, 1992's $12.95; 1991's $8.00; Flayderman's Fifth Edition $19.95. Postage paid by mail, book rate; check, Visa, Master Card. Neuman's Books, P.O. Box 496, Canton, IL 61520. (309) 647-1029.

Custom Products - Neil Jones Dies; 7x57 Mauser, $75; L.E. Wilson Dies: 22-250, $65. Both sets as new, call "Dicky" Wright at (517) 386-3932. Used benchrest rifle and components wanted, i.e., 6PPC/Short BR, Stolle Action, fiberglas stock, Jewell Trigger, 36x Leupold. Looking for state-of-the-art equipment at a reasonable price. Call Bob (206) 588-7362.

Remington 700 Varmint Barreled Action, 22-250, New in box, $275. Ahschutz 54MS, LH Action, great BR 50 gun or shoot as is, as new in box, $700. Leupold M8-6X DX, as new in box, $125. Juenke Electronic wall thickness tester, latest model, as new in box, $400. Colt AR-15 match rifle and DCM M1 with paperwork, write (SASE), or call for details. W.F. Barker, P.O. Box 3797, Winchester, VA 22601. (703) 665-3046 after 6:00 PM (EDST).

Wanted: 1903-A3 Remington 2 groove barrels, new in cosmoline. Contact: James Lindsey, 6 South Valley View Drive, Wimberley, TX 78676. (512) 847-9250.

Shotguns: Remington Model 31, 16 gauge pump with chokes, excellent with case, $180. Remington Model 11, 31″ barrel, 12 gauge, Drop Back Goose Gun, XT full choke, $150. Baretta Model A303, 30″ barrel, 12 gauge, as new/never fired, $300. Lefever by Ithaca, 12 gauge, single shot, full choke, great condition, $140. Call Jack Lazowski, (312) 269-2470 days.

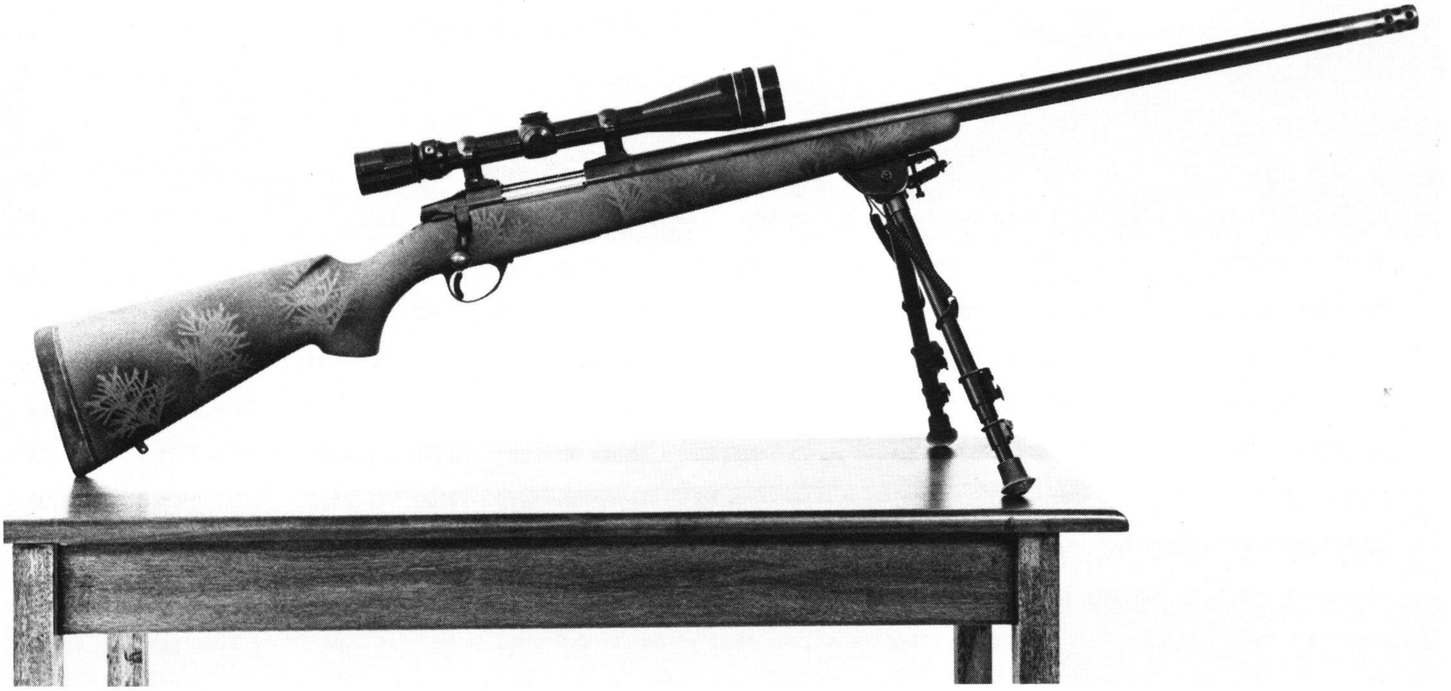
Wanted: PPC, .220 Russian cases, new only, any quantity. Used Culver powder measures, carbide bulletmaking dies, G.I. 322 powder, used bench guns. Lester Bruno (717) 455-2211.

BOLT HOLSTERS - heavy duty, handmade, treated leather with flap and snap. Plenty of room for large bolts. $14.99 each plus postage. **WIND FLAG STANDS** - extends to 9 ft. Commercially made aluminum stands with a clear anodized finish. Has folding tripod legs and positive stop locks on each section. Top section is 3/8″ dia. $33.50 ea. with 10% discount on lots of 5 or more stands. Shipping costs not included. R.F. Mitchel, 430 Walnut St., Westernport, MD 21562. (301) 359-0638.

WANTED

40-X ACTIONS, STOCKS,
and RIFLES.
Bob Pease
POB 787, New Braunfels, TX 78131.
AC 512 625-1342 afternoons

CUSTOM 220 SWIFT — with Harris bipod model 25 — and KDF muzzle brake



Custom 220 Swift: SPECS

SAKO medium action - with trigger set a #2 pounds, with trigger shoe

Redfield scope bases - Millett rings

Leupold Vari-X III - 6.5 X 20 scope

National Match grade barrel and chambering - by SGW (Olympic Arms, Inc., 624 Old Pacific Highway S.E., Olympia, WA 98503)

26″ Broach-cut barrel from 416F Stainless Steel - 1 X 14 Twist - fluted-oxide black

Special order barrel to fit largest diameter KDF muzzle brake. - tapers to .90″
(When I "engineered" this rifle for a muzzle brake, the gunsmith had never installed a brake on a 22 caliber before, that was in 1986, now muzzle brakes are more commonly seen on the smaller bores.)

Stock made by MPI Fiberglass Stocks (P.O. Box 83266, Portland, OR 97283-0266)

Leaf pattern stock - painted by MPI with Epoxy paint, medium texture wrinkle

Pachmayr old english recoil pad

Total weight with scope 9 pounds 10 oz.

	AVG. GROUP
IMR 4064 - 38.5 grains - 55 Sierra Spitzer - Win. # WLR primer - 3912 fps	.44″
IMR 4064 - 38.2 grains - 55 Sierra Blitz - Win. # WLR primer - 3844 fps	.48″
IMR 4320 - 38 grains - 55 Sierra Spitzer - CCI # 200 primer - 3968 fps	.56″
Accuracy Load: IMR 4064 - 38 grains - 53 gr. Sierra HP Match #1400-Win.#WLR primer - 3821 fps	.33″

Caution: The Sierra blitz is not designed for this high of velocity, the extra smooth barrel may be the reason I can obtain this velocity.

The chamber is tight, and I must turn the case necks.

Steve Hanson
7846 So. K Street
Tacoma, WA 98408
(Author of "Hunting the Idaho Rockchuck," in July issue)

TARGETECH:
405 W. Washington #260
San Diego, CA. 92103
U.S.A.

BR-50 International©

CENTERFIRE...100 yards
RIMFIRE.......50 yards
AIR RIFLE.....25 yards

BR-50 CLUB OF SOUTHERN CALIFORNIA   DATE: 6/1/91   SOUTH BAY ROD & GUN CLUB---DULZURA, CALIFORNIA

TOP-TEN

							CHAMPOINTS
NAME	DIV/RIFLE	SCOPE	AMMO/BULLET	RAW	HANDICAP %	AGGREGATE	PTS/TO DATE
1. LARRY BROWN	APC/Targetech ABR	15 Weaver	Bisley Magnum	3485	+5.0000	3659.2500	10/ 44
2. JIM BELL	R/Targetech 40X/X	36 LeuPrem	Lapua Master	3230	+2.0000	3294.6000	9/ 46
3. STAN HILL	R/Targetech EXP	36 B&L	Lapua Master	3200	+2.5000	3280.0000	8/ 52
4. LEW MURDICA	R/Anschutz 54 (custom)	36 B&L	Eley Tenex	2935	+1.6250	2982.6937	7/ 10
5. PETE CORNELL	R/Targetech PANTERA	36 Leupold	Lapua Master	2930	+1.5000	2973.9500	6/ 28
6. CHARLINE PRAY	A10/Feinwerkbau C60	24 Simmons	RWS 530 Extra	2825	+2.4375	2893.8593	5/ 5
7. HOWARD PRAY	A10/Feinwerkbau 600	24 Simmons	RWS 530 Extra	2840	+1.1875	2873.7250	4/ 14
8. DAVE MARKEE	R/Anschutz 64MS	6-24 B&L	Eley Tenex	2745	+2.3750	2810.1937	3/ 38
9. ROBERT DEMENT	R/Targetech 40X/X	36 LeuPrem	Lapua Master	2435	+2.2500	2489.7875	2/ 38
10. TOM LIBBY	R/Targetech PANTERA	36 Leupold	Lapua Master	2205	+1.2500	2232.5625	1/ 10

COMMENTS: TOM LIBBY & LEW MURDICA came down from Palm Desert to tackle the "DULZURA CONDITION"(breezes galore)in this, our first match at our new home, SOUTH BAY ROD & GUN CLUB. They are fun! Also, welcome back to HOWARD & CHARLINE; we missed ya! JIM BELL wins his first Rimfire silver star since he switched over from Centerfire last year.
NOTE: Effective immediately, for the enjoyment of our club shooters, Airgun division is split into two categories, APC (Pre-Charged pneumatics), and A10 (10-meter match rifles). All airguns other than Pre-Charged pneumatics will compete in A10 classification. This new category is not recognized by BR-50 INTERNATIONAL but is merely for our Southern California Championship Series. NEXT MATCH: SAT. July 6, 10AM. Sign-in by 9:30--warm-up from 8AM.

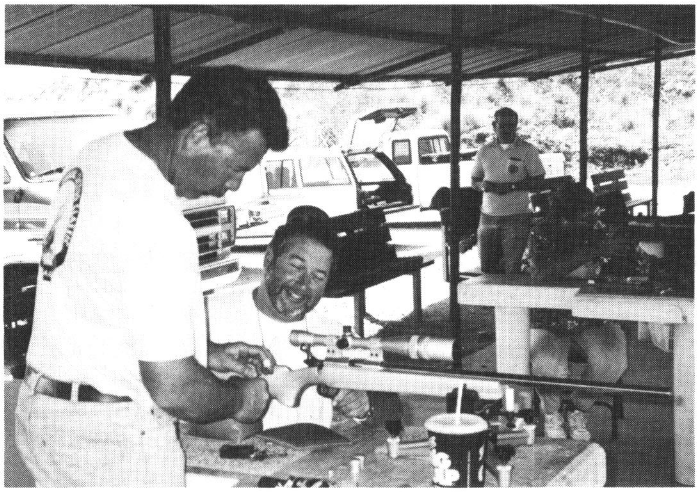
Entry fee: $10.00   Match Director: Larry Brown--(619) 299-4455

BLACK SWAMP RIFLE & PISTOL CLUB   DATE: 5/19/91   Delphos, OHIO

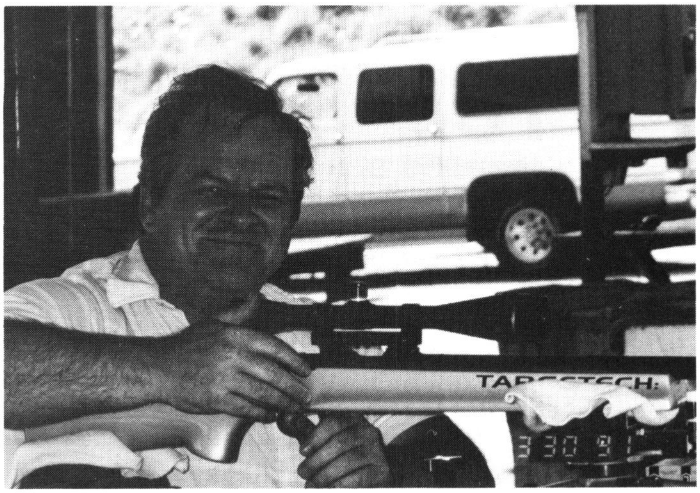
TOP-TEN

							CHAMPOINTS
NAME	DIV/RIFLE	SCOPE	AMMO/BULLET	WEIGHT	HANDICAP %	AGGREGATE	PTS/TO DATE
1. WARREN McFARLAND	R/XP-100 Calfee	36 Leupold	Eley Tenex	9/12	+2.2500	3732.1250	10/ 10
2. DARVIN APPLE	R/Winchester 52	24 Leupold	Eley Tenex	12/0	0.0000	3150.0000	9/ 9
3. RON FIFER	R/Anschutz 54	24 Leupold	Eley Standard	11/2	+0.8750	2718.0962	8/ 8
4. BOB MARTIN	R/Anschutz 54	20 Lyman	Eley Tenex	10/5	+1.6875	2598.1156	7/ 17
5. FRED SINCLAIR	R/KIMBER (?)	10 Lyman	Eley Tenex	8/6	+3.6250	2404.6800	6/ 13
6. DAN POHLMAN	R/Anschutz 54	20 Lyman	Eley Tenex	10/5	+1.6875	2379.4875	5/ 5
7. BILL GRAVETT	R/Kimber (?)	6-20 Simmons	Eley Tenex	9/13	+2.1825	2217.0000	4/ 4
8. FRED MOREO	R/Sharpshooter-2	36 Tasco	PMC Target	9/3	+2.8125	2148.7813	3/ 12
9. J.R. SCHNIPKE	R/Mossberg L43	4-16 Tasco	Federal Match	8/9	+3.4375	1598.1094	2/ 2

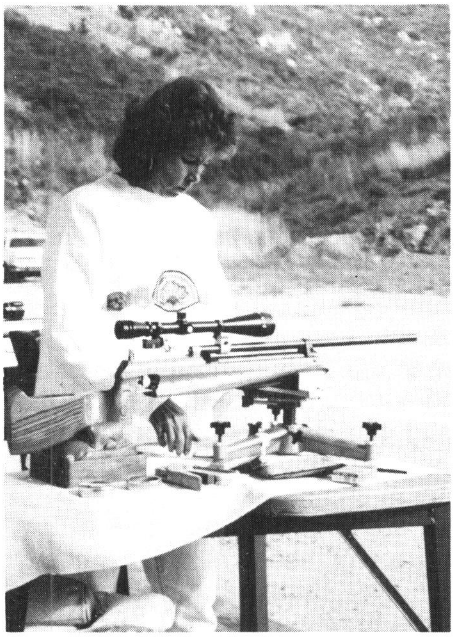
Sorry Larry, no pictures this time; all the film came out BLACK! Either a malfunction of the film or a loose nut behind the shutter. Next time we'll try more than one of both! Special thanks to WARREN McFARLAND & DARVIN APPLE for their helpfulness and insight. NEXT MATCH: JUNE 16. FRED MOREO--(419) 695-3179



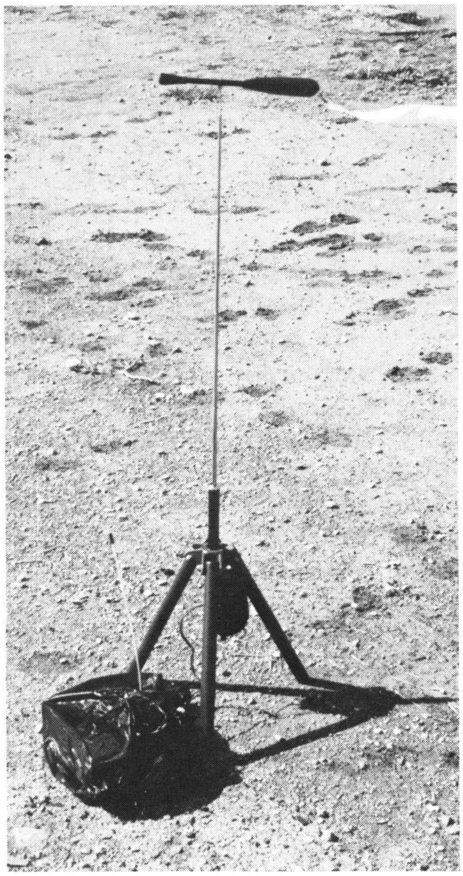
TOM LIBBY & JOE VALENTINE checking out Tom's new PANTERA. (Which used to Joe's old Winchester 52).



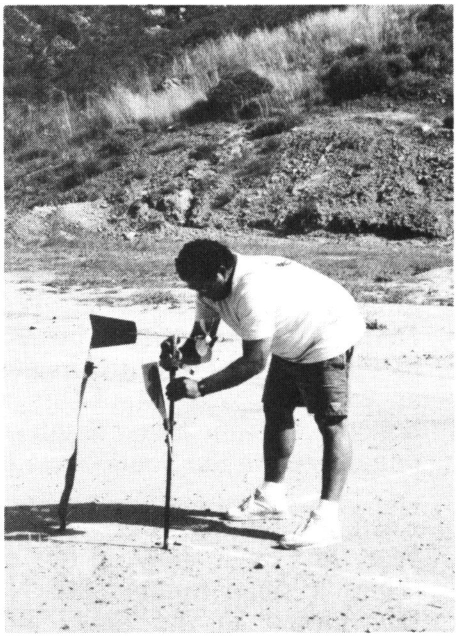
PETE CORNELL - 3/30/91
BR-50 at San Gabriel Valley Gun Club.



CHARLINE PRAY sets up FWB C60. (Olympic airguns are deadly at BR-50!)



BOB DEMENTs Radio-Controlled wind flag. (Made from power car antenna and model car RC equipment.) He adjusts height from bench!



LEW MURDICA - 6/1/91
BR-50 at DULZURA, CA.

Editor: We note with interest a few benchrest names starting to pop up in BR-50. On the west coast Lew Murdica, Joe Valentine and Tom Libby have been known to reload a PPC hull or two. In the Ohio match report, we find the names of Fred Sinclair and Ron Fifer.

TcL

TRANSCONTINENTAL HUNTER League - National Conference

JULY 1991 TCL NEWSLETTER

WRITTEN BY BOB PEASE

EASTERN DIVISION		NORTHERN DIVISION		CENTRAL DIVISION		SOUTHWEST DIVISION	
Dunhams Bay	2-1	Entiat, WA	2-1	St. Louis BR	3-0	So. Florida	3-0
Tiffin O IWL	2-1	TC Oregon	2-1	Northern Ia.	3-0	Las Vegas NV	2-1
Aurora, Ill.	2-1	Snow Shoe AK	2-1	SW Louisiana	2-1	San Juan NMX	1-2
Cap.City ME	1-2	NW Montana	1-2	Mentor Ohio	2-1	Northrn Colo.	1-2
Chippewa OH	1-2	Yellowstne MT	1-2	La. Cajuns	1-2	Central TX	0-3
Holmsbrg PA	1-2	LaCrosse WI	0-3	Menom.Fls WI	1-2	Waco Area TX	0-3

AUGUST SCHEDULE

Yellowstone MT	vs.	Mentor OH	Northern IA	vs.	Las Vegas NV
La Crosse WI	vs.	Holmesburg PA	Southwest LA	vs.	Dunhams Bay
Tri County OR	vs.	Northern CO	LA Cajuns	vs.	Central TX BR
Western MT	vs.	Capital City ME	St. Louis	vs.	Entiat WA
Snow Shoe AK	vs.	San Juan NM	Tiffin OH	vs.	Waco Area TX
Menom.Fls WI	vs.	Chippewa OH	Aurora IL	vs.	South FL

NEWS AND THOUGHTS

Six clubs out of 24 remain with a clean record after two matches. Entiat, WA in the Northern Division. There are now but three unbeaten clubs in the League. Two are in the Central Division as expected with St. Louis and Iowa sharing honors. Meanwhile South Florida remains unmolested in the South-West Division.

Even the "POSSIBLES" have been elusive this year. Just eight show up this month which again seems a small number.Bill Neimi of Dunhams Bay turned in the only "POSSIBLE" in the Eastern Division. Don Feltman of Alaska had the only "POSSIBLE" in the Northern Division, that somewhat of a surprise.

San Juans' Lynn Wood and Bill Thompson did the perfect 250 to be the only ones in the South-West Division. "POSSIBLES" in the Central Division were shared by Hal Toland of Northern Colorado and Louis Langlinais from the SW Louisiana Club. St. Louis had two "POSSIBLE" entrants with Jim Baker and Clark Greene sharing the honors.

The August match schedule shows some interesting matchups with Alaska going against San Juan, NM, Northern Iowa tangling with Las Vegas and St. Louis and Entiat, Washing butting heads. Florida and Aurora are side by side in the point standings and that too should be a good matchup.

The team X-counts are very high in some cases. This tells be that a lot of shooters are punching that dot a lot of the time but when they lose one it goes out to at least a nine. X-counts of 64, 65 and 67 means that all five shooters are hitting the X-ring dot two out of three times they fire. That sure "ain't too shabby".

The accumulated score totals show that the fifth place Cajuns are still in the hunt for s September shootoff berth. They are however tied with TC Oregon. Oregon has to shoot against Colorado while the Cajuns draw the fifth place Central Texas Benchrest. The latter used to be a formidable opponent for the Cajuns but those days seem to have dwindled away somewhere.

R. G. Robinett, Director
P. O. Box 72
Madrid, IA 50156
(515) 795-2906

Terry Meyer, Co-Director
R. R. 1, Box 50
Thornton, Iowa 50479
(515) 998-2860

TCL
Ameri-Con-News

American Conference, Transcontinental Hunter Rifle League

BLIND FREDDY MOB		BLACK STUMP MOB		BUSH MOB		IN IT MOB	
Mainville	3-0	No. Colorado	2-1	LaGrande	2-1	Cody	2-1
Minnetonka	1-2	Redwood	2-1	Dakota	1-2	Van Dyne	2-1
West Texans	1-2	Golden	1-2	Buffalo	1-2	Richmond	2-1
Holmen	0-3	Prairie Dog	0-3	Red Lodge	0-3	Cen-Tex No.	2-1

What the Hell is a Possible? Anybody seen one lately? Technically, a Possible is a 250 with 25X – the Holy Grail of Hunter Class. For practicality, the TCL has always recognized any 250 score as a Possible (points). The 1991 season has been visited by a derth of 250's. July scores were pleasingly up, but each opened envelope confirmed the rarity of a "Possible" score. Finally, my pal Terry Meyer showed up in his "Terry the Terrible" outfit and produced a nifty 250-14X for the Vikings. Then, Frank McKee got into the act for Mainville: 250-9X. Larry Cribbs, on the maiden voyage with his new Remington actioned hunter rifle garnered a respectable 250-7X for LaGrande, OR, but . . . it was Hal Toland, No. Colorado, who set the standard for July: 250-16X. Hal did a little "mule skinning" while bearing the Ameri-Con standard. Congratulations!

The "Grudge Match" as demanded by Larry Cribbs, featuring Minnetonka vs. LaGrande, will not be soon forgotten by the combatants, indeed, the waters around and about LaGrande, OR may not support life (as it was known before the fray) for many numerous long years – but beavers are mammals and they will surely adapt to land based activities. While Terry Meyer, wearing his aforementioned "The Terrible" (as in "bad") outfit, pumped "the honey wagon" contents into the clear Oregon waters, the Vikings appeared to have all the escape routes blocked. However, Larry Cribbs, by virtue of his new hot Remington actioned rifle, saved his wards with the aforementioned 250-7X. LaGrande prevailed with a 1 point victory, reversing last year's 1 point blowout and further frustrating the Vikings.

Sadly, Don Deckert's Prairie Dogs have not shown their heads above ground this season -- they may well be an endangered species. Unless there is a dramatic reversal, PDTC will have to relinquish their slot on the American Conference roster. Don is faced with a monumental ferreting operation, for the Prairie Dogs have gone deep to ground.

AUGUST 1991

Mainville	**LaGrande**
No. Colorado	**Cody**
Minnetonka	**Red Lodge**
Golden	**Van Dyne**
West Texans	**P.D.T.C.**
Dakota	**Cen. Tex. No.**
Buffalo	**Richmond**

The Bozos, Eureka, CA, soundly defeated their Richmond, CA counterparts by a margin of 9 points: 1233-43-1224-21. The Bozos admitted to having "bought" victory via top drawer equipment. While they recognize that they may "be on a plateau" for some time (until they have both their technical and wind doping skills), they are nonetheless proud to wear the "Golde Bear" robe for the next year. This looks like another grudge match!

What about Mr. Terrible's schedule?!! Only one team remains undefeated after three matches – Mainville. The pack continues to intimidate – an impressive **3722-167X** Total Score practically guarantees that Gary Long's Mob will once again post the highest season total going into the shoot off.

Look at that **In It Mob**. Every team at 2-1 with a total point spread of only 56 points "top to bottom." Cody leads the division after three matches, but drew hungry No. Colorado for the season finale – the "In It'" title is "up for grabs."

Meanwhile, with help from Cody, the Bozos could win the Black Stump and a shoot off slot. The Cody/No. Colorado match proves pivotal for several clubs.

The "wild card" slot refuses to gel – it will be a bloody battle, this August quest for glory.

Remember, shoot off scores are due Oct. 1, 1991. If you think you are in the hunt, call your tribe together and shoot a score – just in case. Good luck to all.

Note that the Americ-Con average score climbed 2.3 points, to 1218.9 – not a bad effort for July.

For Hunter Rifle Competition

R. G. Robinett

IBS News

Edited by Dave Brennan

EUROPE

(As reported by Herve du Plessis, and supplemented by Dr. Lou Palmisano's letter to the editor . . . said letter following here).

Dear Dave

I spent 30 days in Europe this year; April 15 - May 15. During my stay I borrowed a 6PPC light varmint rifle from Luigi Cassanova, and joined the Italian team on a trip to France, and participated in the International Spring Trophy Match (100-200 meters), contested for light varmint and heavy varmint class rifles. The match was held at Souppes, France; about 20 miles south of Paris.

A beautiful range, with ten benches, good solid concrete and cinder block; covered overhead. And the French know how a gentleman should be treated at a benchrest match . . . wine with lunch, french pastry between matches, that sort of thing. You would love it, David!

The shoot served as a qualifying match for the first World Benchrest Championships, to be held October 3-7 at Frejus, France. The match ran smoothly and quickly; after the wine with lunch, it ran beautifully.

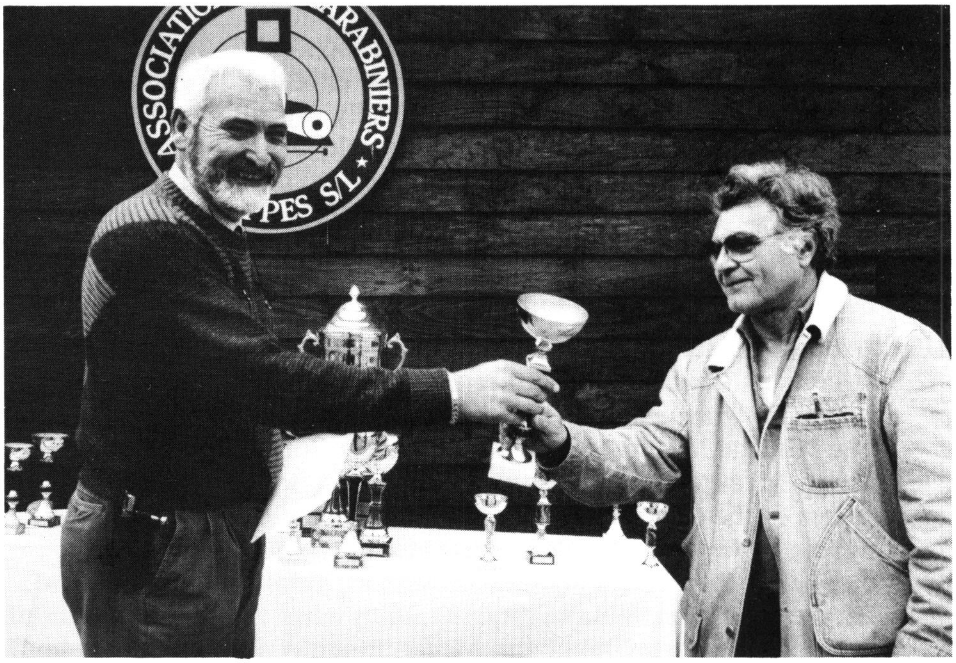
An overview of the 21 shooters equipment: the scopes were all Leupold. Some 60% of the shooters used Stolle Pandas, 20% used Hall actions, and the final 20% were divided between Remington and a French action. About 70% of the barrels were Hart, and 30% were Shilen. The wine was French. (Editor: does the equipment listing for the Top 20 specify the wine of choice for each?). There were no weigh-ins . . . of either rifles or shooters.

Mr. Condomines was the host; we ate at his restaurant on the evening of the banquet. Language was no problem . . . he called me "Parmigiano" (like the cheese), and I called him "Condominium") like the apartment units). So much for my French, and his Italian!

As you can see from the match results I won the 100 meter heavy varmint championships, and thus qualified for the World Championships, on the Italian team. I was greatly impressed by the shooting of Mr. Chastel, who did not shoot the light varmint class. But he certainly tore up the heavy varmint class, including a possible record 6.01mm single shot group at 200 meters.

I shot all borrowed equpment, plus 50 bullets that I brought with me (see this month's editorial). I had a great time!

Lou Palmisano



Lou Palmisano

ASSOCIATION DES CARABINIERS
SOUPPES S/L

Light Varmint Class

100 meters

1. P. Bouah Kamon	0.26390
2. J.C. Gros	0.28217
3. C. Pacheco	0.28944

200 meters

1. E. Becker	0.36932
2. P. Bouah Kamon	0.37991
3. L. Casanova	0.38059

Grand aggregate

1. P. Bouah Kamon	0.321930
2. C. Pacheco	0.354708
3. E. Becker	0.374130

Heavy Varmint Class

100 meters

1. L. Palmisano	0.24134
2. C. Pacheco	0.24833
3. P. Condomines	0.26266

200 meters

1. J.M. Chastel	0.20844
2. J.P. Troin	0.26114
3. Lusvardi	0.30182

Grand aggregate

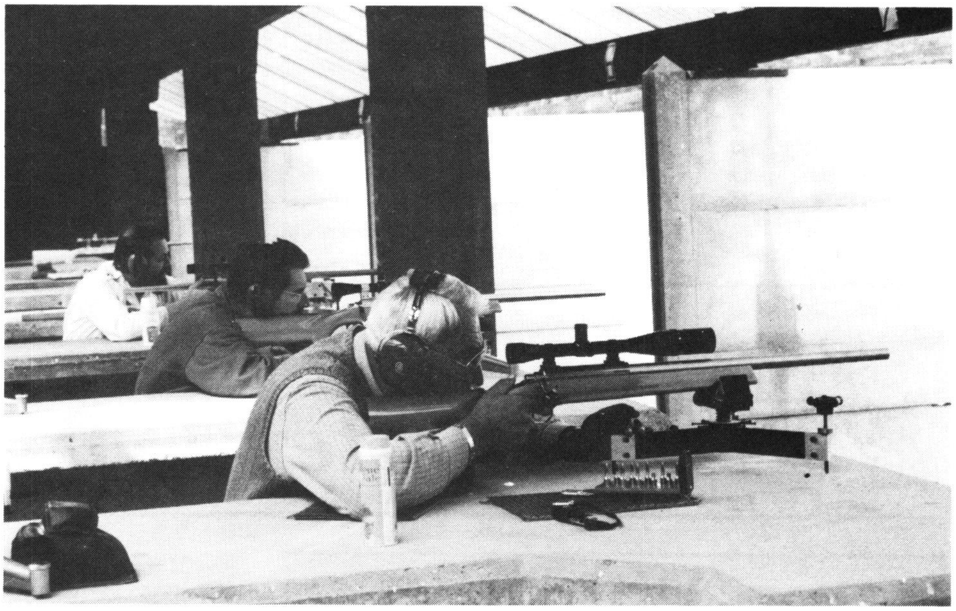
1. J.M. Chastel	0.248364
2. P. Condomines	0.307512
3. Lusvardi	0.313668

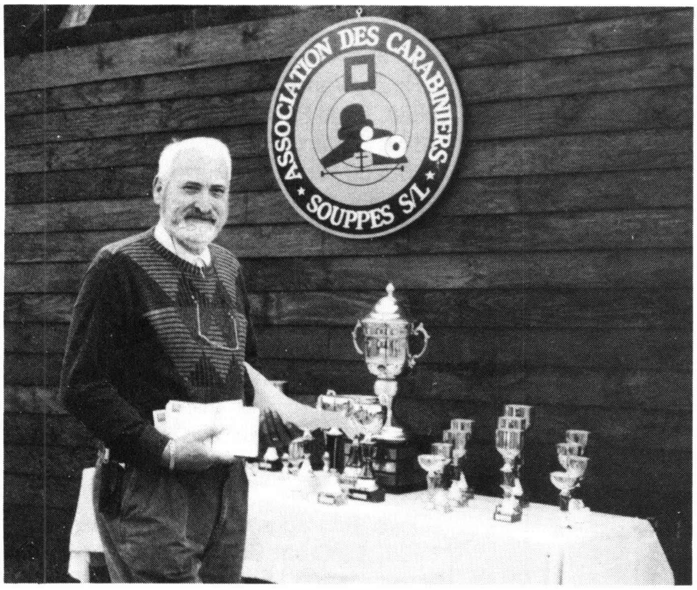
2 Gun aggregate

1. C. Pacheco	0.335916
2. P. Condomines	0.374877
3. Lusvardi	0.376947

(Photos courtesy of Lou Palmisano and Herve du Plessis)

ASSOCIATION DES CARABINIERS
SOUPPES S/L




ASSOCIATION DES CARABINIERS
SOUPPES S/L

P. Condomines

Carlos Pacheco

ORIGINAL
PENNSYLVANIA
1000 YARD
BENCHREST
CLUB
INC.

Newsletter 1991

June 2, 1991 Newsletter #3

Match #3

Winning Equipment

9 Relays 85 Shooters

Name	Group	Cal.	BBl.	Scope	Gunsmith
1. Sarah Morgan	7.000	308 Baer	Ober	Redfield	Bruce Baer
2. Bill Majer	7.781	308 Super	Hart	Unertl	Gene Graybill
3. Steve Warner	10.625	308 Baer	Ober	Leupold	Bruce Baer
4. Henry Chapman	11.093	308 Super	Hart	Unertl	Gene Graybill
5. Harvey Metz, Jr.	9.062	308 Baer	Ober	Unertl	Bruce Baer
6. Allen Miller	7.031	300 Win	Hart	Unertl	Howard Wolfe
7. Jim Berfield	13.718	308 Wby	Hart	Unertl	Miller & Barnes
8. Paul DeWalt	6.437	308 Baer	Hart	Unertl	Bruce Baer
9. George Reeder	7.093	300 Win	Hart	Unertl	Howard Wolfe

Name	Score	Cal.	BBl.	Scope	Gunsmith
1. Earl Chronister	95 Blk	30-378	Hart	Unertl	Gene Graybill
2. Phylis Burk	93	308 Baer	Lilja	Unertl	Bruce Baer
3. Darryl Cassel	93	308 Baer	Ober	Unertl	Bruce Baer
4 .Betty Lauver	86	300 Wby	Hart	Tasco	Howard Wolfe
5. Paul Reynolds	83	7MM Wby	Hart	Unertl	Unknown
6. Harold Rice	76	308 Super	Hart	Unertl	Gene Graybill
7. Bob Moriarity	67	30-378	Wiseman	B&L	Howard Wolfe
8. Terry Myers	90	30-378	Kreiger	Unertl	Miller & Barnes
9. Bill Hagerman	86	308 Baer	Hart	Leupold	Bruce Baer

Shoot Off Winner Group
PAUL DEWALT 5.250

Smallest Group Fired
PAUL DEWALT 5.250

Closest to Center
PHYLIS BURK 0.437

Shoot Off Winner Score
BILL HAGERMAN 93

High Score of the Day
EARL CHRONISTER 95

FOR SALE
BARR & STROUD
RANGEFINDER
500 yd. to 20,000 yd.
Clean • Best offer
Lowell Amand
(717) 626-2948

ORIGINAL
PENNSYLVANIA
1000 YARD
BENCHREST
CLUB
INC.

Newsletter 1991

June 23, 1991 Newsletter #4

Match #4

Winning Equipment

9 Relays 82 Shooters

Name	Group	Cal.	BBl.	Scope	Gunsmith
1. Les Hagerman	blk 6.000	308 Baer	Hart	Leupold	Bruce Baer
2. Ken Ridenour	8.687	300 Win			Unknown
3. Bill Hagerman	6.468	308 Baer	Hart	Leupold	Bruce Baer
4. Joe Saltalamachia Sr	8.125	308 Baer	Oberm	Unertl	Bruce Baer
5. Linda Hagerman	8.000	308 Baer	Hart	Unertl	Bruce Baer
6. Rick Loy	7.750	300 Win	Hart	Unertl	Unknown
7. Jim Berfield	9.937	300 Wby	Hart	Unertl	Miller & Barnes
8. Harvey Metz, Jr.	8.062	308 Baer	Oberm	Unertl	Bruce Baer
9. Jim Chapman	8.843	308 Baer	Hart	Unertl	Bruce Baer

Name	Score	Cal.	BBl.	Scope	Gunsmith
1. Darryl Cassel	95 blk	308 Baer	Oberm	Unertl	Bruce Baer
2. Ken Keefer	84	30-378	Hart	Unertl	Howard Wolfe
3. John Bledsloe	93	30 BN	Krieger	Unertl	John Stoppa
4. Bob Moriarity	95	30-378	Hart	Unertl	Howard Wolfe
5. Walt Bryan	94 blk	30 BN	Krieger	Unertl	John Stoppa
6. Ken Lowmiller	86	308 Super	Hart	Unertl	Gene Graybill
7. Bob Wolfe	89	30-378	Hart	Unertl	Howard Wolfe
8. Paul DeWalt	94	308 Baer	Hart	Unertl	Bruce Baer
9. Dick Lauver	86	300 Wby	Hart	Tasco	Howard Wolfe

Shoot Off Winner Group
HARVEY METZ, JR. 10.625

Smallest Group Fired
LES HAGERMAN 6.000

Closest to Center
TED MORGAN 0.062

Shoot Off Winner Score
RICHARD LAUVER 94

High Score of the Day
LINDA HAGERMAN 97
WAY TO GO CUZ

HAVE A SAFE

GENESEE

The May match of the Genesee Conservation League hosted 8 shooters. At 100 yards: 1.) Jim Stekl 250-13x, 2.) Greg Kleisley 249-11x, 3.) John Wagner 248-11x. At 200 yards: 1.) Jim Stekl 247-3x, 2.) Marc Skirvin 241-0x, 3.) John Stekl 240-1x. Grand agg: 1.) Jim Stekl 497-16x, 2.) John Wagner 487-13x, 3.) Marc Skirvin 487-12x, of note was the good shooting of Marc Skirvin, accomplished with a bench pistol ... including a 50-5x in one match.

SELKIRK

On April 27th and 28th Selkirk Benchrest Shooters held their season opener. "Wind." What can I say about it, gusty, switchy, at times approaching 45 m.p.h., you have all heard these stories and have all experienced them. If we were sailors we would be praying for it (wind), but we are not, we are Benchrest Shooters, who are praying to finish the group without being embarrassed by old Mother Nature. Put all that together with six months of cold and snow giving way to the first benchrest match of the season and we have all the excuses covered.

We had 18 shooters going for the gold in Light Varmint and in Heavy Varmint.

Light Varmint 100 yards: 1.) Lance Seib .4418, 2.) Herman Hefta .4480, 3.) Al Phillips .4682. Small group: George Holter .257. 200 yards: 1.) Herman Hefta .4515, 2.) Herb Lang .4770, 3.) Ted Gaillard .5487. Small group: Ted Gaillard .528. Grand aggregate: 1.) Herman Hefta .4498, 2.) Grant Schick .5227, 3.) Lance Seib .5248. Grand agg winner Herman Hefta shot a 6PPC on a Stolle action with a Hert barrel. Simison did the metal work and Sinclair did the stock work. Herman had a 36x Leupold scope and used 27.0-T322 with 68 gr. Rubright bullets to win the event.

Heavy Varmint 100 yards: 1.) Herb Lang .2868, 2.) Al Phillips .3732, 3.) Ted Gaillard .3804. Small group was Herb Lang with a .115. 200 yards: 1.) Murray Benson .5037, 2.) Grant Schick .5730, 3.) Chuck Pond .6450. Small Group: Rock Royl .520. Grand aggretate: 1.) Murray Benson .4798, 2.) Grant Schick .5104, 3.) Chuck Pond .5191. Grand agg winner Murray Benson shot a 6PPC on a Stolle action and a MacLennan barrel. Grant Schick did the gunsmithing and Murray did his own stock work. He used a 36x Leupold and 27.0-T322 along with 68 gr. Stricker bullets to get the job done.

Two Gun aggregate: 1.) Herman Hefta .5035, 2.) Grant Schick .5166, 3.) Murray Benson .5200, 4.) Ted Gaillard .5365, 5.) Lance Seib .5493.

FASSETT

The Northern Tier Sportsmen's Club (or, if you're an old timer who resists change . . . the South Creek club) hosted their traditional July 4th match for heavy varmint and light varmint class rifles on July 6th and 7th of this year.

BARRY DEVLIEGHER who was to win the heavy varmint class grand aggregate, got a running start on the task, with a convincing win at 100 yards, with Tom Peria and Paul Burns occupying the second and third spots on the ladder. At 200 yards DON NIELSON (who just ambled by; Don lives in California) took the yardage crown, followed closely by Bob White, and Tony Margelewicz. Mr. Devliegher was lying a close fourth however, within striking distance for the grand agg.

100 yards: 1.) Barry Devliegher .2130, 2.) Tom Peria .2512, 3.) Paul Burns .2558, 4.) Glenn Smith .2562, 5.) John Belden .2576, 6.) E.A. Smith .2630, 7.) Dale Boop .2634, 8.) Vic Swindlehurst .2680, 9.) Bob White .2686, 10.) Bob DeMonstoy .2690.

200 yards: 1.) Don Nielson .2701, 2.) Bob White .2752, 3.) Tony Margelewicz .2950, 4.) Barry Devliegher .3046, 5.) Marty Caratsole .3067, 6.) Don Gentner .3079, 7.) E.A. Smith .3132, 8.) Mike Sicina .3302, 9.) David Abbott .3333, 10.) Bill Sutton .3345.

Grand agg: 1.) Barry Devliegher .2588, 2.) Bob White .2719, 3.) Don Nielson .2752, 4.) E.A. Smith .2881, 5.) Marty Caratsole .2954, 6.) Don Gentner .3059, 7.) Mike Sicina .3095, 8.) Tony Margelewicz .3096, 9.) John Belden .3147, 10.) Tom Peria .3333.

In the light varmint class BOB ADAMOWICZ took a big, big win at 100 yards, and trudged home in 22nd place at 200 yards. In the meantime WOODY ELLISON was adding together an 8th place at 100 yards with a 1st place at 200 yards . . . good enough for a close win in the grand aggregate over Mr. Adamowicz.

100 yards: 1.) Bob Adamowicz .1996, 2.) Tony Margelewicz .2542, 3.) Tom Peria .2754, 4.) Don Gentner .2758, 5.) Bill Brawand .2786, 6.) Paul Mitchell .2822, 7.) Tim LeBarron .2830, 8.) Woody Ellison .2860, 9.) Barry Devliegher .2862, 10.) David Abbott .2898.

200 yards: 1.) Woody Ellison .2438, 2.) Bill Gammon .2533, 3.) Paul Beaver .2635, 4.) Al Skiver .2709, 5.) Barry Devliegher .2736 (if you're trying to figue out the two gun winner at this point . . . we ask you to note that Mr. Devliegher is still lurking about), 6.) Marty Caratsole .2957, 7.) Tony Margelewicz .2967, 8.) Vic Swindlehurst .3013, 9.) Paul Burns .3071, 10.) Glenn Smith .3093.

Grand agg: 1.) Woody Ellison .2649, 2.) Bob Adamowicz .2743, 3.) Tony Margelewicz .2754, 4.) Barry Devliegher .2799, 5.) Marty Caratsole .3032, 6.) Bill Brawand .3078, 7.) Tom Peria .3082, 8.) Don Gentner .3090, 9.) Don Nielson .3153, 10.) Bob DeMonstoy .3156.

Two gun grand agg: 1.) Barry Devliegher .2693, 2.) Tony Margelewicz .2925, 3.) Don Nielson .2953, 4.) Marty Caratsole .2993, 5.) E.A. Smith .3061, 6.) Don Gentner .3075, 7.) Woody Ellison .3117, 8.) Bob White .3148, 9.) Tom Peria .3207, 10.) Mike Sicina .3269.

Northern Tier Sportsmen's Club, Northern Tier Sportsmen's Club, Fassett, PA 07/06/91 to 07/07/91

Heavy Varmint Grand Aggregate Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
B. Devliegher*	6ppc	Stolle	Hart	Masker	Six	Prem	45X	Sako	28.0g H322	Euber	Federal
B. White*	6ppc	CPS	Schneider	B.White	B.White	B&L	36X	Sako	28.2g H322	Rubright 63g	Federal
D. Nielson*	6ppc	Teddy	Hart	Nielson	Frei-six	Leupold	36X	Sako	61.0g 322	Euber 68g	Federal
E. Smith*	6mm	Hall B	Hart	E.A.Smith	E.A.Smith	Leupold	36X	6ppc	38.0g GDV	65g	Federal
M. Caratsole*	6ppc	HallB	MacLennan	Dixon	Wieder	Leupold	36X	Sako	27.6g GI322	Euber 68g BT	Federal
D. Gentner*	6ppc	Stolle	Shilen	Hammonds	Howie		X	Sako	29.4g GI322	Gentner 65g	Federal
W. Sicina*	6ppc	Witch	McLannan	Dixon	Dixon	Leupold	35X	Sako	27.0g	Holl	Federal
T. Margelewicz	6ppc	Hart	Hart	Borden	RWHart	B$L	36X	Russ	27.0g H322	Euber 68g	Rem
J. Belden	240FW	CPS	Hart	B. White	A.Adams	B&L	36X	USA	26.0g H322	Rubright 63g	Federal
T. Peria*	6ppc	Wichita	Hart	Dixon	Dixon	Leupold	36X	Sako	26.0g GI.H322	Rubright 63g	Federal

Northern Tier Sportsmen's Club, Northern Tier Sportsmen's Club, Fassett, PA 07/06/91 to 07/07/91

Light Varmint Grand Aggregate Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
W. Ellison	6mm	Stolle	Hart	Dowling	Dowling	B&L	36X	Russ	H322	Berger	Fed
R. Adamowicz*	6ppc	Xprims	Lilja	R&M	R&M	Leupold	36X	Sako	4895	Brawand 68g	
T. Margelewicz	6ppc	Hart	Hart	Borden		Leupold	36X	Russ	27.6g	H322 68g	Rem
B. Devliegher*	6ppc	Stolle	Hart	Masker	Six	Prem	45X	Sako	28.0g H322	Euber	Fed
M. Caratsole*	6ppc	Hall std	Hart	Dixon	Dixon	Leupold	36X	Sako	27.6g	Euber 68g FB	Fed
B. Brawand*	6ppc	Swindle		Brawand	Smith	Leupold	40X		3032	Brawand 63g	Fed
T. Peria*	6ppc	Wichita	Hart	Dixon	Dixon	Leupold	30X	Sako	28.0g GI322	Rubright 63g	Fed
D. Gentner*	6ppc	Stolle	Shillen	Hammond	Howie		X	Sako	29.4g GI322	Gentner 65g	Fed
D. Nielson*	6ppc	Panda	Hart	Nielson	Frei	Leupold	36X	Sako	GI322	Euber 68g	Fed
R. DeMonstoy*	6ppc	Rem	Hart	Maskers	Maskers	Lyman	30X	Sako	28.0g 322	DeMonsto 68g	Federal

MAINVILLE

The Mainville club hosted the Pennsylvania State Score Championships on July 13th and 14th. There was a good turn-out of shooters; 49 shooters in varmint for score, 16 in hunter class, and 17 in varmint hunter.

ERWIN SHINKLE grabbed the 100 yard crown in hunter class, while GUY GREEN was taking the 200 yard crown. It was JOE GILBERT who took the gran agg however.

100 yards; 1.) Erwin Shinkle 250-12x, 2.) Frank McKee 249-9x, 3.) Vince Pastorella 248-11x. At 200 yards: 1.) Guy Green 245-4x, 2.)Joe Gilbert 244-3x, 3.) Alan R. Kogoy 242-3x. Grand agg: 1.) Joe Gilbert 492-12x, 2.) Guy Green 490-14x, 3.) Erwin Shinkle 489-16x, 4.) Frank McKee 488-12x, 5.) Alan R. Kogoy 488-10x.

DWIGHT FURROW took the 100 yard honors, but then passed from the sight of mortal man at the longer yardage. JOE GILBERT continued his torrid pace, winning both the 200 yard and grand agg in the varmint hunter class.

100 yards: 1.) Dwight Furrow 250-9x, 2.) Al Weaver 250-8x, 3.) Alan M.Kogoy 249-12x. At 200 yards: 1.) Joe Gilbert 245-5x, 2.) Alan M. Kogoy 244-3x, 3.) Mike Williams 241-2x. Grand agg: 1.) Joe Gilbert 494-15x, 2.) Alan M. Kogoy 493-15x, 3.) Mike Williams 489-14x, 4.) G. McPherson 488-15x, 5.) Al Weaver 486-10x.

ROGER GOWER turned in a nice 250-22x to win the 100 yard stage of the varmint for score class, and found to his surprise that it was barely enough to win. At 200 yards BILL WHITENER turned in a 249-7x for the yardage win (again, barely enough), and then ROGER GOWER, via the x-count rule, nosed out BILL WHITENER, both of whom had 499 grand agg figures.

100 yards: 1.) Roger Gower 250-22x, 2.) G. McCoy III 250-21x, 3.) J. Stahl Sr. 250-20x. At 200 yards: 1.) Bill Whitener 249-7x, 2.) Roger Gower 249-6x, 3.) Eubert Burgess 248-6x. Grand agg: 1.) Roger Gower 499-28x, 2.) Bill Whitener 499-20x, 3.) Eubert Burgess 498-28x, 4.) Bill Gebhardt 497-14x, 5.) Dale Boop 496-19x, 6.) Joe Davis 496-19x, 7.) Ted Parreco 496-19x, 8.) Richard Miller 495-18x, 9.) Dennis Collins 495-16x, 10.) Paul Bielec 494-17x.

I.B.S. Pennsylvania State Score Championship, Mainville Sportsmans Club, Mainville, Pennsylvania 07/13/91 to 07/14/91

HUNTER Top 10 Equiment List

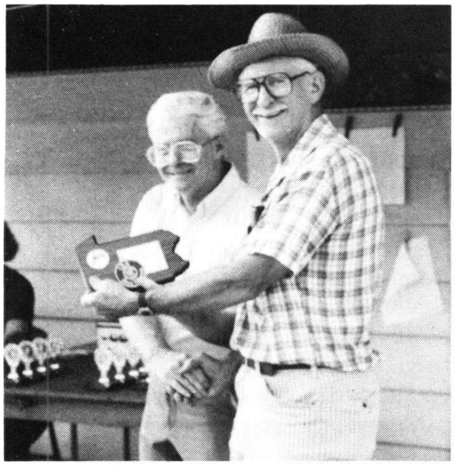
name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
J. Gilbert	30 X 44	700	Hart	Masker	Masker	Lyman	6X	Rem	33.0g 748	GTB135g	210M
G. Green	30 Dunno	Rem 722	Schneider	Self	Self	•Picar	6X	30AM	37.5g H4895	Chism150g	205M
E. Shinkle	30SFGI	Rem	Hart	VP	VP	Weaver	6X	PMC	GI322	Fritz134g	Fed
F. McKee	30Aardvark	Rem	Schneider	Madeira	Madeira	Prem/Leu	6X	Fed	37.0g 2015	SG125g	205
A. Kogoy	30/30	Rem	ChanLynn	Tar-Hunt	Tar-Hunt	Zeiss	6X	Fed	36.0g T332	GTB150g	7.5
V. Pastorella	308	Rem	Hart	Pastorella	Pastorella	Weaver	6X	Fed	41.0g 4895	VP168g	Fed
G. Long	30 X 47	Rem	MacLennan	Tar-Hunt	Long	Leupold	6X	Rem	39.0g H322	Chism150g	9.5
P. Johnson	30 X 44	Rem	Hart	Speedy	Speedy	Burris	6X	Rem	42.0g 748	125g	Fed
R. Fritz	30/30	722	Lilja	Tar-Hunt	Long	Weaver	6X	FedAM	T322	Fritz134g	7.5
T. Fritz	30 T/H	660	MacLennan	Tar-Hunt	Tar-Hunt	Weaver	6X	FedAM	T322	Fritz134g	7.5

VARMINT FOR SCORE Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
R. Gower	6 mm	Xp 100	Hart	Weider	Gower	Leupold	36X	Sako	27.8g 322	Rub	7.5
B. Whitener	6 PPC	Stolle	Hart	Kelbly	Kelbly	Leupold	36X	Sako	27.6g T32	Fuber 68g	205 M
E. Burgess	6 PPC	Teddy	Hart	Masker	Six	Premier	40X	Sako	27.5g H322	Euber 68g FB	7.5
B. Gebhardt	6 PPC	Trophy	Hart	Borden	Self	Leupold	60X	Sako	27.5g H322	Lynn 70g	205 M
D. Boop	6 PPC	Hall	Schneider	Weider	Weider	Leupold	36X	Sako	27.0g H322	Rub	Fed
J. Davis	6 PPC	Shilen	Shilen	Hammonds	Meredith	Mark IV	32X	Sako	29.0g N201	Berger 68g	205
T. Parreco	6 PPC	40 X	Chanlynn	Buhrman	Meredith	Premier	18-40X	Sako	31.0g 3032	Fowler 63g	7.5
R. Miller	6 PPC	XP 100	Hart			Leupold	36X	Sako	27.7g H322	Rub 66g	Fed
D. Collins	6 PPC	Stolle	Hart	Weider	Weider	Leupold	36X	Sako	28.0g H322	Rub 66g	Fed
P. Bielec	6 BR	Pas	ChanLynn	Greenawalt	Greenawalt	Leu/Prem	40X	Rem	29.6g H322	Holliste 68g	205

VARMINT HUNTER Top 10 Equiment List

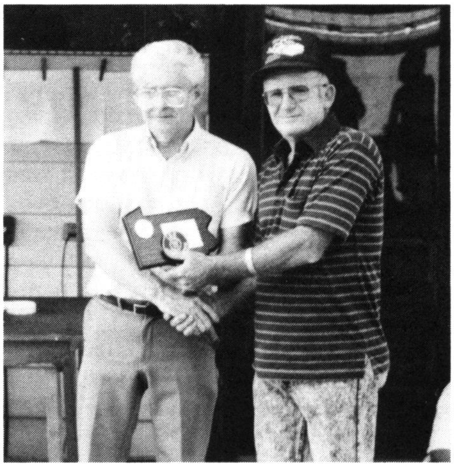
name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
J. Gilbert	6 PPC	700	Hart	Masker	Masker	Lyman	6X	Sako	28.0g H322	Euber 68g	205 M
A. Kogoy	6 PPC	Rem	ChanLynn	Tar-Hunt	Tar-Hunt	Leupold	6X	Sako	28.0g T32	Fritz 68g	205
M. Williams	6 PPC	Rem	Hart	Williams	Williams	Weaver	6X	SAKO	27.5g 322	VP 70g	Fed 205
G. McPherson	6 PPC	Rem 700	Hart	Pryor	McPherson	Leupold	6X	SAKO	27.0g 8208	Fowler 66g	205 M
A. Weaver	6 PPC	Rem	H & S	Weider	Pastorella	Premier	6X	USA	26.1g H322	VP 70g	205 M
J. Lashock	6 PPC	Rem	Hart	VP	VP	Weaver	6X	Sako	28.5g H322	VP 70g	Fed
B. Williams	6 PPC	700 Rem	Hart	Williams	Williams	Lyman	6X	Sako	28.0g 322	Burger 65g	Fed
B. Creasy	6 BR	Rem	MacLennan	Tar-Hunt	Tar-Hunt	Lyman	6X	7 BR	31.0g 322	Fritz 67g	7.5 Rem
L. Masteller	6 BR	700	MacLennan	Tar-Hunt	Tar-Hunt	Weaver	6X	Rem	29.0g H322	Fritz 68g	7.5
K. Livengood	6 PPC	Rem	Hart	Pastorella		Burris	6X	USA	27.7g 2460	VP 70g	Fed



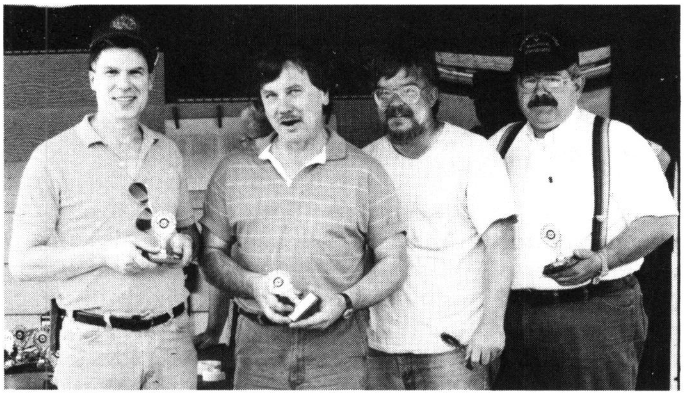
Guy Green — first place hunter (200 yards).

PENNSYLVANIA STATE CHAMPIONSHIPS (Score) Mainville, July 13-14

(Photos courtesy of Joe Gilbert)

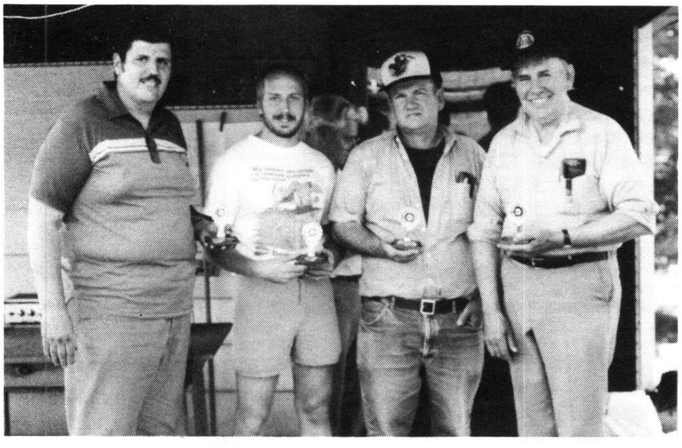


Erwin Shinkle — first place hunter (100 yards).



First place Varmint for Score team — L to R: Roger Gower, Dennis Collins, ?, and Bill Gebhardt.

First place Hunter class team — L to R: Joe Gilbert, Blaine Johnson, Erwin Shinkle and Frank McKee.



First team: Varmint-hunter class — L to R: Mike Williams, Gary McPherson, Dwight Furrow.

Grand Agg winners: Roger Gower, Varmint for Score; Joe Gilbert, Hunter and Varmint Hunter.

THE SCORE SHEET

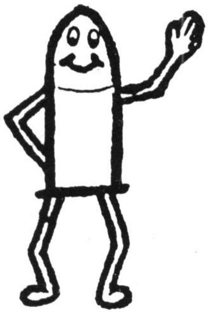
At a recent Score Shoot held at **Sulphyr Springs,** a few shooters were complaining about being s _ _ _ on. Before you start blaming the range crew or scorer, it was nothing more than a nest of young birds above Bench 6 doing what comes natural. The problem was solved with a 100 yard target and the bird's X count was better than the shooters.

The IBS Rulebook requires the use of stationary backers for all score matches that have a grand aggregate. One of the reasons for this is to detect crossfires. The target crew is trained to look for double shots as possible crossfires. When a double shot appears on a bull, it is necessary to check the targets on either side to determine if an obvious crossfire occurred. Then the range crew must match the target shots with the shots on the stationary backer. This necessitates taking down the stationary backer and a new one installed in its place. The old backer must be marked with the match and competitor number and kept separately with the target so the scorer and referees can determine what happened. This not only takes a lot of time up range by the target crew but holds up the scorer and the referees (fellow competitors). One shot adds an awful lot of time to the total days match. Everyone gets angry and occasionally must see if it was the conditions or themself. If this happens, let the range officer know **before** the target crew goes down range that you DID IT AND ARE SORRY!

One of John Gammuto's followers (.17 caliber) has been amazing the score shooters at score matches lately. **Bill Heuer** of Hicksville, NY has been shooting a 17/222 with 21 grains of Gl322 and a 25 gr Berger bullet. When sitting next to this gun it sounds like someone forgot the powder when they reloaded. The interesting fact is that Bill also shoots a full sized 308 in Hunter Class. Talk about extremes! Our hat goes off to Bill.

At the PA State Score Championship held at Mainville there were four factory guns, three of which shot for an aggregate. These fellows shot for the first time at 100 Yard targets. **Charles "Ed" Davis** with a 6PPC Sako had a grand agg of 491-9X. Not bad! Also at the PA State's I happened to overhear a fellow telling his gunsmith, "Look at that group on the sighter. I can't figure out what happened on the record bulls." The gunsmith calmly turned around and replied, "I build the best sighter guns in the country."

In the off road sport there is a well known company called T C Off Road. Ask any shooter at the PA State Score Championship about Mainville's **TC Off Road Target Truck Driver.** She can make a 56 Chevy Truck talk, spin, sputter, cough, and quit.



May your X count be high,

BB

INTERNATIONAL BENCHREST SHOOTERS

IBS OFFICERS

PRESIDENT
James Oliver
10161 Jay Knapp Road
Dansville, New York 14437
Phone (716) 335-5617

VICE PRESIDENT and
MATCH SCHEDULE CHMN.
Brian Hollister
RD 2 Box 60
Whitehall, NY 12887
Phone (518) 499-1569

2nd VICE PRESIDENT
Paul Ryan
1005 Pheasant Run Rd.
Clarks Summitt, Pa. 18411
Phone (717) 587-4013

TREASURER
Brian Rubright
1008 S. Quince Rd.
Walnutport, Pa. 18088
Phone (215) 767-1339

SECRETARY
Russ Boop
RD 2, Box 78
Mifflinburg, Pa. 17844
Phone (717) 872-4269
(717) 966-3677

RECORDING SECRETARY
Joan Borden
RR 1, Box 244A
Tunkhannock, Pa. 18657
Phone (717) 833-2234
FAX (717) 833-2382

PAST PRESIDENT
James F. Borden
RR 1, Box 244A
Tunkhannock, Pa. 18657
Phone: (717) 833-2234
FAX (717) 833-2382

IBS EDITOR
David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
Phone: Work (203) 643-1157

CAPITOL CITY

GEORGE HOGAN, a brand new rookie shooter, in his first benchrest match, with a brand new Seely Masker built rifle ... on June 16th, at the Augusta, Maine range ... blew the doors off everyone, winning the match convincingly, with a nice .2134 aggregate. That's not a bad aggregate for a new shooter. Now that we think about it, that's not a bad aggregate for a very experienced shooter.

Heavy varmint class (7 shooters): 1.) George Hogan .2134, 2.) Dan Caruso .2240, 3.) Joe Gilbert .2660.

Hunter class (9 shooters): 1.) Blaine Johnson 247-11x, 2.) Peter Hills 247-8x, 3.) Parker Hills 244-7x.

Varmint hunter class (5 shooters): 1.) Parker Hills 250-6x, 2.) Dwight Furrow 247-15x, 3.) Blaine Johnson 247-3x.

Varmint for score (10 shooters): 1.) Blaine Johnson 250-20x, 2.) Joe Gilbert 250-20x, 3.) George Hogan 250-17x.

TARGETS

Target No.	Target Description	Quantity	Total Weight	List Price per 100
IBS-B/1	100 YD Benchrest—Black 8x15½	500	15	7.00
IBS-B/2	200 YD Benchrest—Black 8x16½	500	15	7.00
IBS-B/3	300 YD Benchrest—Red 12x23½	250	19	21.50
IBS-H/1	100 YD Hunter—Black 12x19	250	14	10.50
IBS-H/2	200 YD Hunter—Black 13x21	250	15	10.50
IBS-H/3	300 YD Hunter—Black 13x26	250	22	25.50

Prices are PER HUNDRED TARGETS
Add Freight from table below

* **SHIPPING/HANDLING** — CONTINENTAL USA ONLY

UPS Ground	Up to 10 lbs.	Up to 24 lbs.	24-49 lbs.	50-74 lbs.	75-99 lbs.	100-149 lbs.	150-199 lbs.	200 lbs. & over	C.O.D. ADD
ADD	$4.00	$7.00	$12.50	$16.50	$24.50	$40.00	$56.50	Truck Rates	$3.50

Determine shipping/handling price by totaling catalog weights per item.

Order Targets in carton lots only

Speedwell Division, Rockwood Corporation, 136 Lincoln Blvd., Middlesex, NJ 08846
201-560-7171 or 800-243-8274

1991 IBS SCORE SHOOTING SCHEDULE

Sept. 1 — CAPITAL CITY RIFLE & PISTOL CLUB, Augusta, Maine — 100 yard H-VH-VFS HV Group, 9:00 a.m.

Sept. 1 — SALISBURY ROD & GUN CLUB, Salisbury, Maryland — 100 yard H-VH-VFS, 11:00 a.m.

Sept. 1 — BOWMANSTOWN ROD & GUN CLUB, Bowmanstown, Pa. — 100 yard H-VH-VFS, 10:00 a.m.

Sept. 1 — IWLA, York, Pa. — 200 yard H-VH-VFS, 11:00 a.m. (NEW MATCH)

Sept. 8 — SULPHYR SPRINGS RIFLE & REVOLVER CLUB, Muncy, Pa. — 100 yard H-VH-VFS, 10:00 a.m. (NEW MATCH)

Sept. 8 — IWLA, York, Pa. — 200 yard H-VH-VFS, 11:00 a.m. **CANCELLED**

Sept. 14 & 15 — DUNHAM'S BAY FISH & GAME CLUB, Lake George, NY — IBS SCORE CHAMPIONSHIP, 100/200 H-VH-VFS, 9:00 a.m. each day.

Sept. 22 — MAINVILLE SPORTSMAN'S CLUB, Mainville, Pa. — 100 yard H-VH-VFS, 11:00 a.m.

Sept. 29 — UNION COUNTY SPORTSMAN'S CLUB, Weikert, Pa. — 100 yard H-VH-VFS .22 Rimfire (Classified), 11:00 a.m.

Sept. 29 — DUNHAM'S BAY FISH & GAME CLUB, Lake George, NY — MEMORIAL MATCH, 100 yard Hunter, 11:00 a.m.

Oct 5-6 — SALISBURY ROD & GUN CLUB, Salisbury, Maryland — Maryland State Championships — H-VH-VFS. 100 yard Sat. 11:00 a.m., 200 yards Sunday 9:00 a.m. (MATCH FORMAT CHANGE)

Oct. 6 — SULPHYR SPRINGS RIFLE & REVOLVER CLUB, Muncy, Pa. — 100 yard H-VH LV-HV, 10:00 a.m.

Oct. 20 — UNION COUNTY SPORTSMAN'S CLUB, Weikert, Pa. — 100 yard H-VH-VFS, 11:00 a.m.

Oct. 27 — CENTRAL JERSEY RIFLE & PISTOL CLUB, Jackson, N.J. — 100 yard H-VH-VFS, 12:00 noon (NEW MATCH)

Oct. 27 — IWLA, York, Pa. — 100 yard H-VH-VFS, 11:00 a.m. (NEW MATCH)

Nov. 3 — MAINVILLE SPORTSMAN'S CLUB, Mainville, Pa. — 100 yard H-VH-VFS, 10:00 a.m.

Nov. 3 — SALISBURY ROD & GUN CLUB, Salisbury, Maryland — 100 yard H-VH-VFS, 11:00 a.m.

Nov. 24 — CENTRAL JERSEY RIFLE & PISTOL CLUB, Jackson, N.J. — 100 yard H-VH-VFS, 12:00 noon (NEW MATCH)

Dec. 29 — CENTRAL JERSEY RIFLE & PISTOL CLUB, Jackson, N.J. — 100 yard H-VH-VFS, 12:00 noon (NEW MATCH)

1991 IBS VARMINT SHOOTING SCHEDULE

Sept. 1 — CAPITAL CITY RIFLE & PISTOL CLUB, Augusta, Maine — 100 yard HV, 9:00 a.m.

Sept. 29 DUNHAM'S BAY FISH & GAME CLUB, Lake George, NY — MEMORIAL MATCH, 100 meters HV, 11:00 a.m.

Oct. 19 & 20 — IWLA, York, Pa. — 19th - 100 yard HV-LV, 20th - 200 yard HV-LV, 8:00 a.m. each day.

BOWMANSTOWN

A 100 yard score match at the Bowmanstown club in Palmerton, Pa. It was hot and dusty in the morning, and a major downpour in the afternoon. And a good time was had by all.

Hunter class (13 shooters): 1.) Frank McKee 250-9x, 2.) Vince Pastorella 249-13x, 3.) Alan R. Kogoy 248-12x, 4.) Troy Lee Smith Jr. 248-11x, 5.) Randy Fritz 248-8x.

Varmint Hunter class (12 shooters): 1.) Ken Livengood 250-9x, 2.) Ken Madeira 249-8x, 3.) Al Weaver 248-12x, 4.) Rich Whiteash 248-8x, 5.) Alan M. Kogoy Jr. 247-7x.

Varmint for score (28 shooters): 1.) Tom Svack 250-17x, 2.) Dennis Collins 250-16x, 3.) Ted Parreco 250-16x, 4.) Corey Frask 250-16x, 5.) Joe Davis 250-16x.

INTERNATIONAL

September 7-8 — SOUPPES S/LOING, FRANCE. Trophy Cup Match. HV 100-200-300 meters.

September 12-14 — BISLEY, ENGLAND. British Open Championship. HV 100-200 yards. September 14th - 1000 yards.

October 3-7 — FREJUS, FRANCE. The first World Benchrest Championship. HV LV 100-200 meters, HV 300 meters.

DUNHAM'S BAY

A score match at the Bay on June 22-23, 1991.

Hunter class (14 shooters) 100 yards: 1.) Frank McKee 249-14x, 2.) Joe Gilbert 249-10x, 3.) Blaine Johnson 247-8x. At 200 yards: 1.) Frank McKee 249-4x, 2.) Blaine Johnson 241-3x, 3.) Tom Svack 238-3x. Grand agg: 1.) Frank McKee 490-18x, 2.) Blaine Johnson 488-11x, 3.) Joe Gilbert 487-12x.

Varmint hunter class (7 shooters) 100 yards: 1.) Joe Gilbert 250-12x, 2.) Alan Kogoy Jr. 249-15x, 3.) Dan Caruso 249-13x. At 200 yards: 1.) Dwight Furrow 245-2x, 2.) Joe Gilbert 243-1x, 3.) Alan Kogoy Jr. 242-6x. Grand agg: 1.) Dwight Furrow 494-12x, 2.) Joe Gilbert 493-13x, 3.) Alan Kogoy Jr. 491-21x.

Varmint for score (26 shooters) 100 yards: 1.) Tom Svack 250-20x, 2.) Bob Lembo 250-16x, 3.) Brian Niemi 250-14x, 4.) Rick Hornbeck 250-14x, 5.) Carl Lynn 250-11x. At 200 yards: 1.) Tom Peria 248-5x, 2.) Lee Euber 248-5x, 3.) Bob Lembo 247-6x, 4.) George Pratt 246-5x, 5.) Bob Sicina 246-3x. Grand agg: 1.) Lee Euber 498-16x, 2.) Bob Lembo 497-22x, 3.) Rick Hornbeck 494-19x, 4.) Mike Sicina 494-17x, 5.) Tom Svack 493-25x.

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

NAME ______________________________

ADDRESS ______________________________

CITY ______________ STATE ______________ ZIP ______________

( ) IBS Membership and Precision Shooting Magazine — $30/year

( ) Associate Membership — Must live in same household as a Regular Member — receives no magazine — $5.00/year

( ) Junior member — 17 and under — no magazine — $5.00/year

( ) Overseas Membership — Includes Precision Shooting Magazine $42.50 in US Funds for Surface Mail
$60.00 in US Funds for Air Mail

( ) Life Membership — includes Precision Shooting Magazine — $300.00 in US Funds

( ) Club Membership $30.00 for American Continents
$37.50 Overseas (US Funds only) (For Surface Mail)

MAIL MEMBERSHIPS TO: JOAN BORDEN, R.D. #1 Box 244A, Tunkhannock, Pa. 18657

Make checks payable to IBS.

Allow up to 60 days for first magazine to arrive.

1991 IBS SCORE SHOOTING CHAMPIONSHIPS

DUNHAM'S BAY FISH & GAME CLUB

RIDGE RD – ROUTE 9L – LAKE GEORGE, NY

SEPTEMBER 14 & 15, 1991

• Hunter • *• Varmint Hunter •* *• Varmint for Score •*

– 100 yards on Saturday – 200 yards on Sunday – each day starts at 9 AM with warmup matches –

IBS AWARDS – EACH CLASS

Traveler & Keeper Plaques for Grand Aggregate Champions
Top Ten Patches for Grand Aggregates
Pins for Match Winners

CLUB AWARDS – EACH CLASS

Second through Fifth for Grand Aggregates
First through Third each Yardage
High "X" each Yardage
4-man Teams

– $14/day first day – $7/day each add'l. gun – $1/day IBS fee – Juniors (17 and under) are 1/2 price –
– Pre-registration required – letter of intent by August 14 –

★ 40 COVERED BENCHES ★

– Free camping available at range (limited electricity) –
– Breakfast, lunch, and dinner (Sat.) available at clubhouse –

ACCOMMODATIONS

FORT ANN, NY		
Queen Anne Motel	518-639-8986	
RT 9, N OF EXIT 19, I-87		
The Kay's Motel	518-793-9070	
Sunset Motel	518-792-6523	
RT 9, N OF EXIT 20, I-87		
King George Cabins	518-792-5904	
Wishing Well Motel	518-792-7445	
EXIT 18, I-87		
Susse Chalet Motor Lodge	518-793-8891	
EXIT 19, I-87		
Econolodge	518-793-3491	

FOR INFORMATION CONTACT

JOE GOLBA 518-383-0727 *CHARLIE FOUNTAINE 518-632-5648*

REGISTRATION FORM

– 1991 IBS SCORE SHOOTING CHAMPIONSHIPS –

DUNHAM'S BAY FISH & GAME CLUB

CHECK ALL APPLICABLE ITEMS:

Class	100 Yds.	200 Yds.
Hunter	☐	☐
Varmint Hunter	☐	☐
Varmint for Score	☐	☐

SEND FORM TO:

Joe Golba
12 Guadalupe Pass
Clifton Park, NY 12065

Name: ____________________
Address: ____________________
City: ____________________ State: __________ Zip: __________